

Erosion Control and Storm Water Management Plan

for:

Wisconsin Baseball Academy
8702 Progress Way
Village of Weston
Marathon County, Wisconsin

June 2014
BHA #: 2014.064

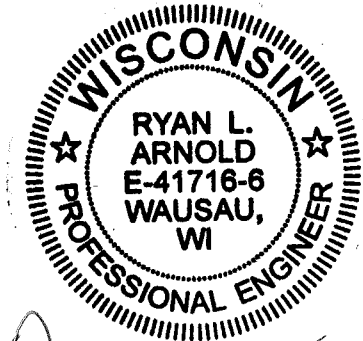
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SIGNATURE PAGE

"I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct."



A handwritten signature in black ink, appearing to read "Ryan L. Arnold".

Ryan L. Arnold, PE
Project Engineer

7-8-2014

Date

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1.0. EXECUTIVE SUMMARY

The purpose of this report is to review the erosion control and storm management practices, establish and implement the appropriate construction site performance standards and minimize or limit the discharge of pollutants carried off by storm water runoff in accordance to Department of Natural Resources Administrative Code NR 216, NR 151 and the Village of Weston's Stormwater Utility Ordinance Chapter 86: Utilities – Article V: Stormwater Utility (hereinafter referred to as the Weston Code).

The Erosion Control section describes temporary erosion control practices to be used during construction activities while the applicable Storm Water Management section identifies permanent practices to be utilized post-construction. A copy of a long-term storm water maintenance agreement is appended to the report.

Erosion Control practices during construction will be installed, inspected and maintained throughout the duration of the construction sequence for the building site. Erosion control measures will include, but are not limited to, silt fence, stone track pads, erosion mat, seeding, mulching and/or dust control. Regular inspections will occur throughout the duration of the construction sequence to limit or reduce, to the maximum extent practicable, of the sediment carried off by runoff as compared to no erosion control practices.

Post-Construction storm water management evaluation results and regulatory compliance considerations are presented in this report. For the proposed design, there will be approximately 90% Total Suspended Solids (TSS) removal for the site, compared to having no runoff management controls. The TSS reduction is achieved through the use of grass swales to convey the water from the parking lot areas to a culvert on the southeast side of the property. The water will enter an existing retention pond along the south side of Progress Way. The water will drain from all sides of the parking lots into the grass swales surrounding the site. The TSS removal is achieved before the runoff enters the existing culvert pipe and retention pond.

There is an existing regional retention pond along the south side of Progress Way, across the road from the site, that was designed and built as a previous project to reduce the 2-year and 10-year post-construction peak flows to pre-construction peak flows through the use of an overflow weir, per the Village of Weston's Stormwater Utility Ordinance. The retention pond is also designed to safely pass a 100-year peak flow.

The 90% TSS reduction and peak flow discharge reductions meet or exceed the requirements in the Wisconsin Administrative Code NR 151 and the Weston Code.

2.0. PROJECT INFORMATION

2.1 General Site Information

The purpose of the project is to provide professional services to the Wisconsin Baseball Academy, LLC to develop final site design and construction plans and specifications for the new Wisconsin Baseball Academy complex to be located at 8702 Progress Way in the Village of Weston, Wisconsin. The proposed building is a single story commercial type building with a footprint of approximately 34,100 square feet and parking lot and sidewalk areas with a footprint of approximately 47,800 square feet. The structure consists of a slab on grade foundation. At this time, it is proposed to have two identical buildings side by side, with one building being built at a time. For the purpose of this report, the final site plan – including both buildings and all parking lots – was analyzed for erosion control and stormwater management. The project is generally considered urban and will be constructed in the Village of Weston's Business and Technology Park – South. Refer to Appendix A for pre-construction site photos.

2.2 Location

The proposed Wisconsin Baseball Academy complex is located in the Southeast Quarter of the Southeast Quarter of Section 23 of Township 28 North, Range 08 East, Village of Weston, Marathon County, Wisconsin. See Exhibit 1 for a 7.5-Minute USGS Map of the project area.

3.0. EXISTING CONDITIONS

3.1 Current Land Use and Area

The current land use of the property (3.77 acres) is vacant in a light manufacturing & distribution (LMD) zoned area. The land has been used for row crops, typical of past Weston commercial farming operations. These farms typically cultivated crops such as corn and soy beans for dairy and beef industries, and trees in recent years prior to the Business Park Development. See Exhibit 2 for existing conditions.

3.2 Site Topography

Generally, the existing site topography slopes from a high spot near the center of the lot to the outside at approximately 1.12% over the property. The center portion has an elevation of approximately +/- 1236.50 feet and slopes to the outside of the property to an elevation of approximately +/- 1233.00 feet. There are no unusually high areas or depressions within the property.

3.3 Site Soils

According to the NRCS Web Soil Survey and the Soil Survey of Marathon County, Wisconsin, the project site consists of Oesterle (Oe) series (hydrologic soil group C) and Scott Lake sandy loam (ScA) series (hydrologic soil group B) soil types.

The Oesterle loam series is characterized by deep, nearly level to gently sloping, somewhat poor to moderately well drained soils on broad or narrow flats adjacent to lower lying depressions on outwash plains and stream terraces.

The Scott Lake sandy loam series is characterized by deep, nearly level to gently sloping, moderately well drained soils on outwash plains and stream terraces.

- Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.
- Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Six test pits ranging in depth from 72 to 112 inches were dug along the north and east sides of the site and the soils were tested for infiltration on June 17, 2014. Infiltration rates for soils in all test pits were found to be 3.6 inches per hour. These findings would indicate the soil hydrologic group would be that of A type soils in nature. TR-55 modeled the area as having hydrologic group A soils from the information provided from the test pits. The test results can be found in Appendix B.

- Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

3.4 Environmental Constraints

According to the WDNR Surface Water Data Viewer, the project site does not lie within any 100-year or 500-year floodplain zones. The project site does contain wetland indicator soils, but does not contain any restorable wetland zones. The immediate adjacent properties also do not contain any susceptible environmental concerns.

4.0. PROPOSED CONDITIONS

4.1 Proposed Land Use

The proposed land use of the property is zoned for light manufacturing / distribution use. The lot will be primarily used as a commercial type property. The proposed building is a single story structure with a building footprint of approximately 34,100 square feet and parking lot and sidewalk areas with a footprint of approximately 47,800 square feet. The structure consists of a slab on grade foundation and will consist of offices and conference rooms, spectator seating, and batting cages and other baseball related equipment.

4.2 Proposed Site Topography

The proposed site topography will be slightly adjusted for proper storm water drainage with the building construction. The building will be set as the highest elevation for the property (foundation elevation of 1238.00 feet). Site grades will be established based on recommended drainage patterns and the applicable storm water management practices to adhere to NR 151 and Weston code requirements for post construction performance standards. Grass swales will be constructed around the perimeter of the site to convey water from the parking lot and roof areas to the southeast corner of the site, where the water will cross Progress Way through an existing culvert pipe into an existing retention pond. An analysis of pre-construction versus post-construction performance standards can be found in the applicable section under the Storm Water Regulations & Design Criteria section in the report below.

5.0. EROSION CONTROL

The following information is submitted in accordance with the requirements of NR 216.46 and the Weston Code, for erosion control plan content. Refer to Appendix C for Erosion Control Details and Appendix G for a Construction Site Inspection Report.

5.1 Site Description [NR 216.46(4)(a) & Weston Code 86.408(1)(c)(2)]

The site currently occupies approximately 3.77 acres and is located along Progress Way in the Weston Business and Technology Park – South. The proposed construction is to construct a new indoor baseball complex on the current site. Included with the proposed work will be a building, a parking lot and green spaces. The site will have two entrances onto Progress Way on the south side of the site. Please see Exhibit 1 for a 7.5-Minute USGS Topo Map and Exhibit 2 for a general site layout and Appendix C for Erosion Control Plan Details.

5.2 Sequence of Construction Activities [NR 216.46(4)(b) & Weston Code 86.408(1)(c)(3)]

It is anticipated that the project will be constructed in phases. Two identical complexes will be constructed side by side, with the western building being constructed first along with parking areas. At a later time, the eastern building will be constructed along with the remainder of the parking lot areas. All grass swales will be constructed for the ultimate site layout as the first building is being constructed. It is assumed at the time of this report that the site grading will be completed first with the building, parking lot, and remaining site features following closely after. Temporary erosion and sediment control will be in place prior to ground disturbance. Permanent vegetation will be established as soon as final grading is complete. It is anticipated that construction will begin in the summer of 2014 and

construction will finish in the fall/winter of 2014. Stone Tracking pads will be constructed and maintained throughout the duration of construction.

5.3 Area of Site Disturbance [NR 216.46(4)(c) & Weston Code 86.408(1)(c)(4)]

The site currently occupies approximately 3.77 acres. The site disturbance, for the purpose of permitting and regulation, is assumed to equate to approximately 3.11 acres of storm water evaluation (building, parking lots and grass areas). Since this area is equal to or greater than 1.0 acre of land disturbance, NR 151, NR 216 and the Weston Code shall be followed.

5.4 Existing Soil Data [NR 216.46(4)(d) & Weston Code 86.408(1)(c)(7)]

According to the Natural Resources Conservations Service Web Soil Survey and the Soil Survey of Marathon County, Wisconsin, Oesterle Loam (Oe) and Scott Lake loam (ScA) are present within the project area. The Oesterle series consists of somewhat poorly drained soils with moderate permeability and has a Hydrologic Group C classification with published permeability ranges from 0.57 to 1.98 inches per hour (in/hr) through the soil strata. The Scott Lake series consists of moderately drained soils with moderate permeability and has a Hydrologic Group B classification with published permeability ranges from 0.6 to 2.0 in/hr through the soul strata. Permeability refers to the quality of the soil that enable water to move downwards through the saturated soil. Permeability values of 0.6 to 2.0 in/hr represent moderate permeability. However, six test pits (dated June 17, 2014) have been performed on the site and findings indicate the soils have moderately rapid permeability, properties associated with Hydrologic Group A classifications. Therefore, for the purpose of this report, the soils have been modeled as Hydrologic Group A for the purpose of determining pre and post-construction runoff peak flows. Refer to Appendix B for additional Soil Information.

5.5 Depth to Groundwater [NR 216.46(4)(e) & Weston Code 86.408(1)(c)(8)]

According the six test pits, the depth to groundwater ranges from approximately 64-inches to 100-inches and the depth to bedrock is more than 100 inches.

5.6 Nearest Receiving Water [NR 216.46(4)(f) & Weston Code 86.408(1)(c)(9)]

According to Exhibit 1, the nearest receiving body of water is approximately 1.75 miles southeast of the building site. This is the head waters of Bull Junior Creek. Bull Junior Creek is not listed as an Exceptional Resource Water (ERW) or Outstanding Water Resource (OWR) by the WDNR. Erosion Control Measures will be in place to prevent construction site erosion and runoff pollutants.

5.7 Description of Erosion Control Best Management Practices

The following erosion control best management practices shall be employed at the project site to reduce or prevent sediment from leaving the site as storm water runoff or as dust:

A. Site-Specific Requirements

The prime contractor shall be responsible for the installation, maintenance and removal of Erosion Control Best Management Practices (BMP's) measures as identified in the project plans. These erosion control measures will be placed on-site to prevent soil, sediment or other pollutants from entering storm sewer and conveyance systems. Erosion control measures may include, but are not limited to: silt fencing, dust control, stone tracking pad and/or tire washing, seeding and mulching. Additional or enhanced erosion control measures may be directed by the engineer, owner, or regulatory official before, during, or after construction, as deemed necessary.

i. Silt Fence

Silt fence is a temporary sediment barrier of entrenched permeable geotextile fabric designed to intercept and slow the flow of sediment-laden sheet flow runoff from

small areas of disturbed soil. Installation and maintenance shall be followed in accordance with Wisconsin Department of Natural Resources Conservation Practice Standard 1056.

ii. Dust Control

Dust control includes practices used to reduce or prevent the surface and air transport of dust during construction. Dust control measures for construction activities include minimization of soil disturbance, applying mulch and establishing vegetation, water spraying, surface roughening, applying polymers, spray-on tackifiers, chlorides, barriers and street sweeping/vacuuming. Installation and maintenance shall be followed in accordance with Wisconsin Department of Natural Resources Conservation Practice Standard 1068.

iii. Stone Tracking Pad and Tire Washing

A stabilized pad of stone aggregate or tire washing station located at any point where traffic will egress a construction site. The purpose of this standard is to reduce off-site sedimentation by eliminating the tracking of sediment from construction sites by construction equipment. Installation and maintenance shall be followed in accordance with Wisconsin Department of Natural Resources Conservation Practice Standard 1057.

iv. Seeding for Construction Site Erosion Control

The purpose of permanent seeding is to permanently stabilize areas of disturbed or exposed soil. The purpose of temporary seeding (one year or less) is to reduce runoff and erosion until permanent vegetation or other erosion control practices can be established. Installation and maintenance shall be followed in accordance with Wisconsin Department of Natural Resources Conservation Practice Standard 1059.

v. Non-Channel Erosion Mat

The purpose of non-channel erosion mat is to protect the soil surface from the erosive effect of rainfall and to prevent sheet erosion during the establishment of grass or other vegetation. Installation and maintenance shall be followed in accordance with Wisconsin Department of Natural Resources Conservation Practice Standard 1052.

vi. Ditch Check (Erosion Bales)

Ditch checks are a temporary dam constructed across a swale or drainage ditch to reduce the velocity of water flowing in the channel and can be constructed out of stone or a double row of straw bales. Installation and maintenance shall be followed in accordance with Wisconsin Department of Natural Resources Conservation Practice Standard 1062.

vii. Mulching for Construction Sites

Mulching is the application of organic material to the soil surface to protect it from raindrop impact and overland flow. Mulch covers the soil and absorbs the erosive impact of rainfall and reduces the flow velocity of runoff. Installation and maintenance shall be followed in accordance with Wisconsin Department of Natural Resources Conservation Practice Standard 1058. Mulching is prohibited upstream of the wetlands to help prevent undesired species from seeding in the wetlands.

WDNR Conservation Practice Standards may be viewed and downloaded at:

http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

WisDOT Erosion Control Product Acceptability List (PAL) may be viewed and

downloaded at: <http://www.dot.wisconsin.gov/business/engrserv/pal.htm>

The Prime Contractor shall prepare and submit an ECIP in accordance with the erosion control plan and general erosion control practices. The prime Contractor shall implement, install, and maintain said plan in accordance with NR 216.46.

5.8 Erosion Control Inspections [NR 216.48(4) & Weston Code 86.407(5)]

The contractor or owner's designated representative shall inspect the project site in accordance with NR 216 and the Weston Code. Inspections shall be conducted at least once per week during the time construction or maintenance activity is being pursued on the project site, and at all of the following times:

- a) Within 24 hours after every precipitation event that produces 0.5 inches of rain or more during a 24-hour period, or that results in any discharge, and to determine the appropriate corrective action, if any.
- b) At each stage, as new portions of the project site are disturbed required additional erosion control practices.
- c) Upon completing the installation of permanent best management practices to stabilize disturbed areas at a project site or selected site.
- d) At the completion of the project. The inspection to be performed at the completion of the project shall be made before the Owner and Engineer provide the prime contractor with written notice of final acceptance of the project.
- e) Contractor shall correct any deficiencies immediately (within 24 hours of rainfall event) and maintain erosion control measures as needed to correct inadequacies of erosion control system. Contractor shall stage or phase the work in a method to cover disturbed areas in a timely manner prior to continuing subsequent work.
- f) Inspectors shall document each inspection on the inspection report form. The inspection report is considered part of a project diary. An example of a Construction Site Inspection Report has been included in the Appendices for contractor use. Contractor shall provide copies of the inspection reports prior to final closeout.
- g) Allow the Director of Public Works, or the designee, to enter the site for the purposes of inspecting compliance with erosion and sediment control plan or for performing any work necessary to bring the site into compliance with the erosion control plan. Keep a copy of the erosion control plan at the construction site.

6.0. MODELING ANALYSIS

6.1 Total Suspended Solids Modeling Methodology

The Wisconsin Baseball Academy building site utilized WinSLAMM (Version 10.0.3) to model the site for TSS performance standards. WinSLAMM (Source Loading and Management Model for Windows) is a storm water quality model that evaluates runoff volume and pollution loading for each source area within each land use for each rainfall event. WinSLAMM utilizes small storm hydrology - the concept that the majority of the runoff volume and pollutant loadings in urban areas is a result of the small and medium rainfall events. Refer to Section 7.0 for further discussion regarding specific performance evaluations.

6.2 Peak Flow Modeling Methodology

The Wisconsin Baseball Academy building site utilized Technical Release 55 (TR-55) for peak discharge determinations. TR-55 presents simplified procedures to calculate storm runoff volume, peak rate of discharge, and storage volumes. TR-55 utilizes a Type II rainfall distribution and Marathon County specific precipitation for the modeled storm

events. TR-55 Version 2.10 was used for modeling peak flows. Refer to Section 7.0 for further discussion regarding specific performance evaluations. See Appendix D and Appendix E for Pre-Construction and Post-Construction peak discharge information as provided by TR-55.

7.0. **STORM WATER REGULATIONS & DESIGN CRITERIA**

7.1 **Purpose**

The Weston Code and the Wisconsin NR 151 Runoff Management rules include water management requirements and performance standards that are meant to diminish the threats to public health, safety, welfare and the aquatic environment. In general, the Village of Weston's storm water code mirrors the performance standards as set in NR 151 (May 2013 Register). However, the Village of Weston requires the 10-year storm event post construction discharge to be reduced to pre-construction levels. The below sections analyze the Wisconsin Baseball Academy complex with the most current Weston Code and NR 151 performance standards. See Exhibit 2 for Proposed Conditions.

7.2 **Total Suspended Solids – Weston Code 86.306(3)(a)(1)**

BMP's shall be designed, installed and maintained to control TSS carried in runoff from the post-construction site. According to code, this site is classified as new development and is subjected to meeting a minimum of 80 percent TSS reduction from the parking areas and roads. The code requirement for 80 percent reduction is compared to no runoff management controls.

The site was modeled with a total of approximately 1,000 feet of grass swales along the outside edges of the site draining the 1.097 acre parking lot and sidewalk areas to the regional retention pond along the south side of Progress Way. The grass swales were divided into four swales to accurately model the runoff from four separate commercial land use areas. Roof runoff will not be connected to the parking lot and will be allowed to infiltrate along other areas of the site. The modeled TSS reduction is approximately 89.6% as compared to no treatment practices. The total TSS removal of 90% meets and exceeds the established 80% removal criteria in NR 151 and the Weston Code. Refer to Appendix F for WinSLAMM input and output information.

7.3 **Peak Discharge – Weston Code 86.306(3)(b)(1)**

By design, storm water BMP's shall be employed to maintain or reduce the 2-year, 24-hour and 10-year, 24-hour storm event's post-construction peak discharge rates to the pre-construction peak discharge rates for the 2-year, 24-hour and 10-year, 24-hour storm events, respectively. Additionally, the 100-year, 24-hour peak flow rate must be safely conveyed by the system. Table 1 represents the Peak Flow Discharges for the storm events shown:

Table 1: Peak Flow Discharges				
Storm Event	Peak Runoff Discharge (cfs)		Required Storage	Available Storage
	Pre-Construction	Post-Construction*	Cubic Feet (Ac-Ft)	Cubic Feet (Ac-Ft)
2-year	0.26	1.7	3,285 (0.075)	49,113 (1.130)
10-year	1.6	5.0	6,021 (0.138)	
*Does not reflect outlet structure discharge rate. Used to determine required storage.				

Post-construction peak flow discharge rates will be reduced to those of the pre-construction rates with the use of an existing regional retention pond. The retention pond consists of an approximate total volume of 49,113 cubic feet (ft³) or 1.13 acre-ft of available storage. Discharge of the retention pond is routed through a 24-inch diameter outlet pipe located on the southern side of the pond and into the existing wetlands. The invert elevation of the pipe is 1233.05-feet and is at a 1.0% slope. The pipe is designed to reduce the 2-year and

10-year storm event peak discharges to the Pre-Construction conditions. Storm events greater than the 10-year event will also safely pass through the pipe and over the 10x12-foot spillway along the south side of the pond and into the adjacent wetlands. Refer to Appendix E for Post Construction analysis and existing retention pond details. Additional details for the existing retention pond design can be found in the Village of Weston's Storm Water Management, Erosion Control Plan and Operation and Maintenance Plan for the Weston Business and Technology Park – South prepared in May 2007.

7.4 Infiltration – NR 151.124 [Weston Code 86.306(3)(c)(2-4)]

The soils within the project region have good infiltration rates and will assist with any infiltration requirements. Discharge from the constructed parking and sidewalk areas will overland flow over the grass (pervious) areas and into grass swales. Grass swales will be constructed with a 0.5% longitudinal slope and will assist with infiltration. Runoff volume from the rooftops will be allowed to completely infiltrate into the ground and will not flow through the parking lot areas. Based on soil borings and test pits, ground water was found to be greater than five feet below the proposed surface, meeting requirements for infiltration. Additional soil boring and test pit locations can be found in Appendix B.

7.5 Protective Areas – NR 151.125 [Weston Code 86.306(3)(d)(1)]

No streams, wetlands or lakes have been identified in close proximity to the project site.

7.6 Fueling & Vehicle Maintenance Areas – NR 151.126 [Weston Code 86.306(3)(e)]

Not applicable to this project.

7.7 Location and Regional Treatment Option – NR 151.127 [Weston Code 86.306(5)]

This project will utilize an off-site regional retention pond designed and constructed to handle post-construction runoff for the Weston Business and Technology Park – South and reduce the 2-year and 10-year 24-hour storm peak runoff to pre-construction levels. Additionally, the pond will safely pass the 100-year, 24-hour storm peak runoff. Specifically, runoff from the site will be routed to the retention pond on the south side of the Progress Way.

7.8 Timing – NR 151.128

Any best management practices associated with the storm water conveyance system that may need to be installed as part of this project will be installed before the site has undergone its final stabilization.

7.9 Maintenance Agreement

Please refer to Appendix H for a post-construction maintenance agreement in accordance to the Weston Code 86.309.

8.0. SUMMARY AND RECOMMENDATIONS

This document constitutes the requirement for an Erosion Control and Storm Water Management Plan for the Wisconsin Baseball Academy complex in accordance to the applicable State and Municipal requirements. The recommended site alterations discussed within the report represent the required practices to follow the jurisdiction of WDNR and the Weston Code for erosion control and storm water management practice.

It is proposed to use approximately 1,000-feet of grass swales at 0.5% longitudinal slope to treat and reduce TSS in parking lot and sidewalk runoff and convey the peak flows to the regional retention pond on the south side of Progress Way. The proposed onsite storm water management practices remove approximately 90% TSS as compared to having no controls. The TSS reduction is achieved and is in compliance with code requirements.

Peak-flow discharge rates for the post-construction condition are reduced to those of the pre-construction rates through the use of the regional detention pond on the south side of Progress Way. Additionally, a 24-inch outlet pipe has been installed to control the 2-year and 10-year discharges from the pond and a 10x12-foot spill way has been constructed to safely pass the 100-year runoff event.

9.0. OWNER INFORMATION

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eric@wisconsinbaseballacademy.com

10.0. REFERENCES AND ABBREVIATIONS

10.1 References

Natural Resources Conservation Science. Soil Survey of Marathon County, Wisconsin. 2003 in conjunction with the USDA Natural Resources Conservation Service Web Soil Survey. <http://websoilsurvey.nrcs.usda.gov/app/>

Central Wisconsin Engineers & Architects, Inc. Storm Water Management, Erosion Control Plan and Operation and Maintenance Plan: Weston Business and Technology Park – South. 2007.

10.2 Abbreviations

USDA – United States Department of Agriculture.
NRCS – Natural Resources Conservation Service.
WDNR – Wisconsin Department of Natural Resources.
WisDOT – Wisconsin Department of Transportation.
ASNRI – Area of Special Natural Resource Interest.
BMP – Best Management Practice.
ECIP – Erosion Control Implementation Plan.
ERW – Exceptional Resource Water.
NHI – Natural Heritage Inventory Water.
TSS – Total Suspended Solids.

Exhibits

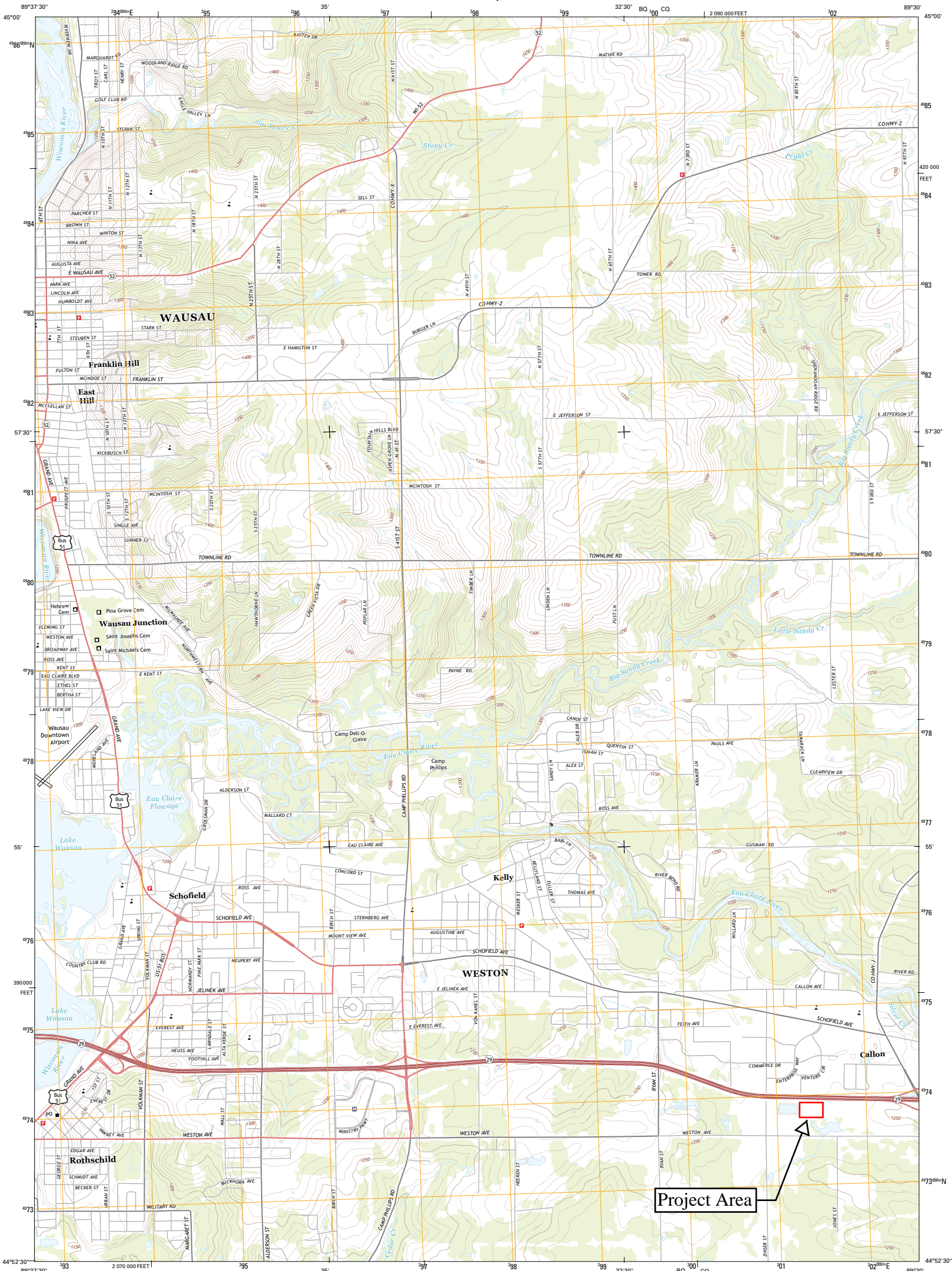
Exhibits



U.S. DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

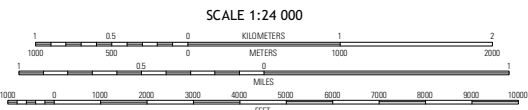
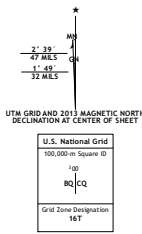


WAUSAU EAST QUADRANGLE
WISCONSIN-MARATHON CO.
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1:000-meter grid: Universal Transverse Mercator, Zone 16T
10 000-foot ticks: Wisconsin Coordinate System of 1983 (central
zone)

Imagery.....NAP, August 2010
Roads.....C2006-2012 TomTom
Names.....GN5, 2013
Hydrography.....National Hydrography Dataset, 2010
Contours.....National Elevation Dataset, 1999
Boundaries.....Census, IRW, IBC, USGS, 1972 - 2012

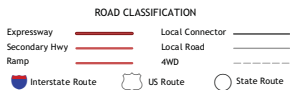


CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.12



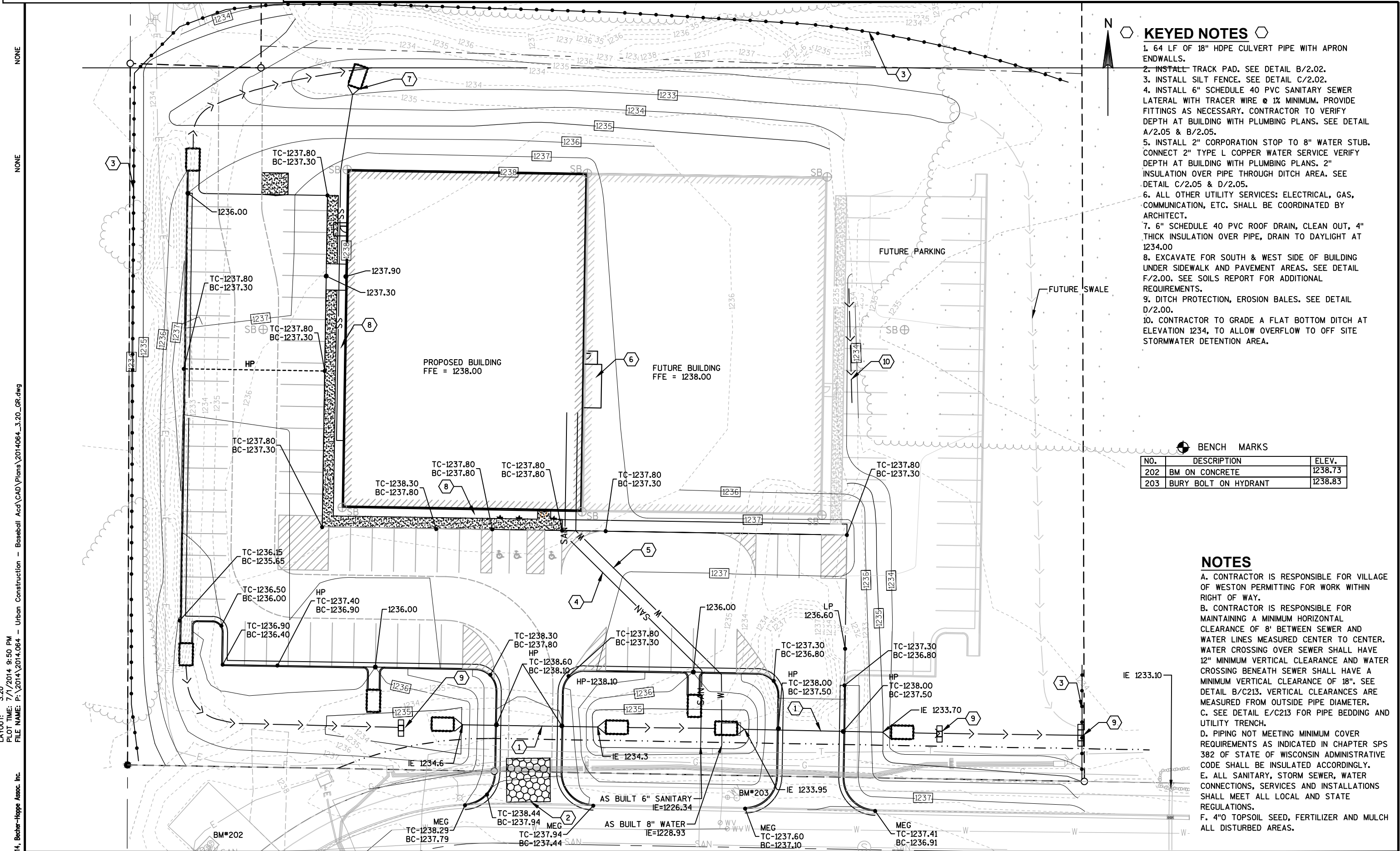
Brokaw	Nutterville	Kalish
Wausau West	Wausau East	Ringle
Mosinee	Poplin	Berens

ADJOINING 7.5 QUADRANGLES



WAUSAU EAST, WI
2013

Exhibit 1: 7.5-Minute USGS Topo Map



KEYED NOTES

1. 64 LF OF 18" HOPE CULVERT PIPE WITH APRON ENDWALLS.
2. INSTALL TRACK PAD. SEE DETAIL B/2.02.
3. INSTALL SILT FENCE. SEE DETAIL C/2.02.
4. INSTALL 6" SCHEDULE 40 PVC SANITARY SEWER LATERAL WITH TRACER WIRE @ 1% MINIMUM. PROVIDE FITTINGS AS NECESSARY. CONTRACTOR TO VERIFY DEPTH AT BUILDING WITH PLUMBING PLANS. SEE DETAIL A/2.05 & B/2.05.
5. INSTALL 2" CORPORATION STOP TO 8" WATER STUB. CONNECT 2" TYPE L COPPER WATER SERVICE VERIFY DEPTH AT BUILDING WITH PLUMBING PLANS. 2" INSULATION OVER PIPE THROUGH DITCH AREA. SEE DETAIL C/2.05 & D/2.05.
6. ALL OTHER UTILITY SERVICES: ELECTRICAL, GAS, COMMUNICATION, ETC. SHALL BE COORDINATED BY ARCHITECT.
7. 6" SCHEDULE 40 PVC ROOF DRAIN, CLEAN OUT, 4" THICK INSULATION OVER PIPE, DRAIN TO DAYLIGHT AT 1234.00
8. EXCAVATE FOR SOUTH & WEST SIDE OF BUILDING UNDER SIDEWALK AND PAVEMENT AREAS. SEE DETAIL F/2.00. SEE SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
9. DITCH PROTECTION, EROSION BALES. SEE DETAIL D/2.00.
10. CONTRACTOR TO GRADE A FLAT BOTTOM DITCH AT ELEVATION 1234, TO ALLOW OVERFLOW TO OFF SITE STORMWATER DETENTION AREA.

BENCH MARKS

NO.	DESCRIPTION	ELEV.
202	BM ON CONCRETE	1238.73
203	BURY BOLT ON HYDRANT	1238.83

NOTES

- A. CONTRACTOR IS RESPONSIBLE FOR VILLAGE OF WESTON PERMITTING FOR WORK WITHIN RIGHT OF WAY.
- B. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A MINIMUM HORIZONTAL CLEARANCE OF 8' BETWEEN SEWER AND WATER LINES MEASURED CENTER TO CENTER. WATER CROSSING OVER SEWER SHALL HAVE 12" MINIMUM VERTICAL CLEARANCE AND WATER CROSSING BENEATH SEWER SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18". SEE DETAIL B/C213. VERTICAL CLEARANCES ARE MEASURED FROM OUTSIDE PIPE DIAMETER.
- C. SEE DETAIL E/C213 FOR PIPE BEDDING AND UTILITY TRENCH.
- D. PIPING NOT MEETING MINIMUM COVER REQUIREMENTS AS INDICATED IN CHAPTER SPS 382 OF STATE OF WISCONSIN ADMINISTRATIVE CODE SHALL BE INSULATED ACCORDINGLY.
- E. ALL SANITARY, STORM SEWER, WATER CONNECTIONS, SERVICES AND INSTALLATIONS SHALL MEET ALL LOCAL AND STATE REGULATIONS.
- F. 4"O TOPSOIL SEED, FERTILIZER AND MULCH ALL DISTURBED AREAS.

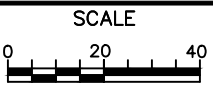
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330 Fourth Street • PO Box 8000
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715.845.8000 • Fax 715.845.8008
becherhoppe.com

DRAWN BY: MAH
CHECKED BY: MMH
DATE: 6/20/14

PROJECT NO:
REV. DATES: 7/1/14



URBAN CONSTRUCTION
WISCONSIN BASEBALL ACADEMY
8706 PROGRESS WAY

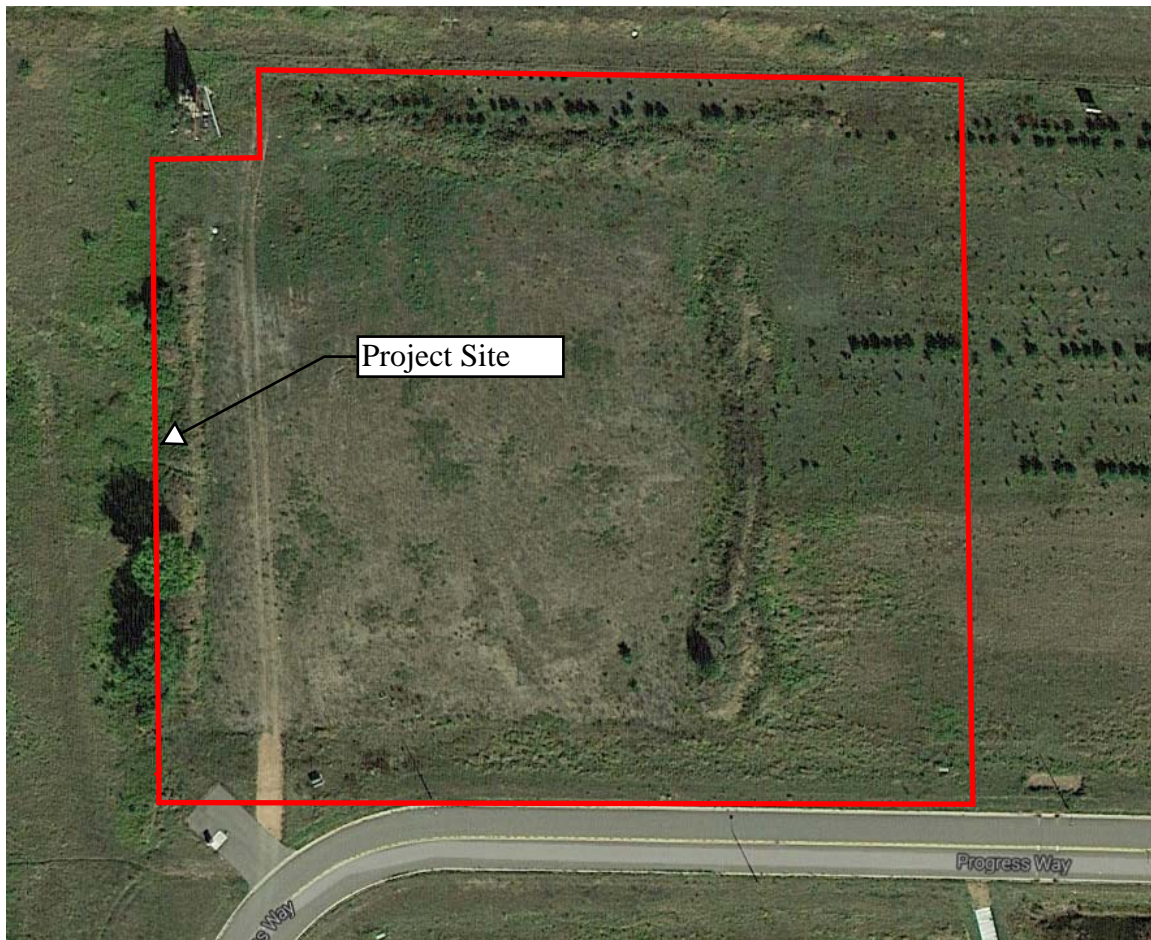
GRADING, EROSION CONTROL, & UTILITY PLAN

SHEET
3.20

Appendix A: Site Photos



Existing Project Site: Looking North from Progress Way



Existing Project Site: Aerial View

Appendix B: Soils Information (NRCS)

Hydrologic Soil Group—Marathon County, Wisconsin



Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Marathon County, Wisconsin (WI073)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Oe	Oesterle loam, 0 to 2 percent slopes	C	4.6	73.9%
ScA	Scott Lake sandy loam, 0 to 3 percent slopes	B	1.6	26.1%
Totals for Area of Interest			6.2	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

TOPOGRAPHIC & BOUNDARY SURVEY

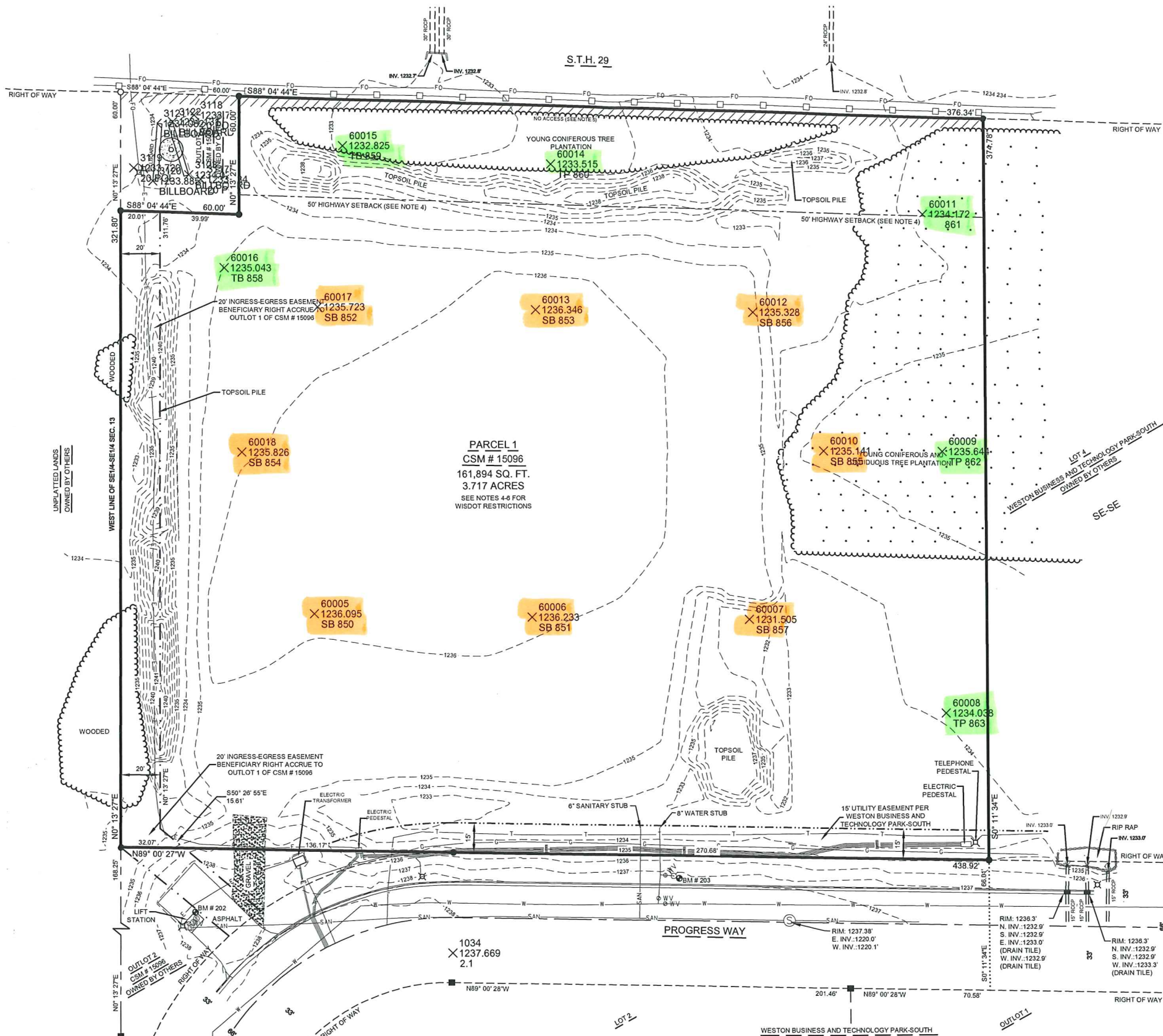
OF PARCEL 1 OF MARATHON COUNTY CERTIFIED SURVEY MAP NO. 15096, BEING A PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 23, TOWNSHIP 28 NORTH, RANGE 8 EAST, VILLAGE OF WESTON, MARATHON COUNTY, WISCONSIN

NO.	DESCRIPTION	ELEV.
202	NW CORNER OF CONC. SLAB	1238.73'
203	BURY BOLT ON HYDRANT	1238.83'

LEGEND	
■	-FOUND 1.25" O.D. IRON PIPE
●	-FOUND 0.75" O.D. IRON ROD
○	-SET 1 1/4" O.D. x 18" IRON PIPE WEIGHING 1.68 LBS / LN FT.
(XXX)	-RECORD BEARING OR DISTANCE
■	-STORM SEWER INLET
⊙	-SANITARY MANHOLE
⊙ WSO	-WATER SHUT OFF
⊙	-LIGHT POLE
⊙	-UTILITY PEDESTAL
⊙	-HYDRANT
---	-EXISTING CONTOUR 1' INTERVALS
-E-	-EXISTING UNDERGROUND ELECTRIC
-G-	-EXISTING GAS LINE
-W-	-EXISTING WATERLINE
-SAN-	-EXISTING SANITARY SEWER
-T-	-EXISTING COMMUNICATION LINE
-FO-	-EXISTING UNDERGROUND FIBER OPTIC LINE
-SS-	-EXISTING STORM SEWER
---	-TREELINE
---	-WOVEN WIRE WISDOT FENCE
---	-NO ACCESS

GENERAL NOTES:

- The locations of underground utilities shown hereon are based on available documentation and marks placed on the ground by others, these locations may or may not reflect the actual locations of said utilities. Diggers hotline should be notified before any subsurface work is conducted.
- Elevations are based on NAVD 88 (2012) and references to NGS Benchmark N 36 (PID - PN0614).
- Bearings are based on the Wisconsin County Coordinates, Marathon County, NAD 83 (2011) and referenced to the West line of Parcel 1 of Marathon County Certified Survey Map No. 15096, measured to bear North 00° 13' 27" East.
- No improvements or structures are allowed between the right of way and the setback line. Improvements included but are not limited to signs, parking lots, parallel driveways, wells, septic systems, drainage facilities, etc. It being expressly intended that this restriction shall constitute a restriction for the benefit of the public according to section 236.293, Wisconsin Statutes and shall be enforceable by the Department of Transportation. Contact the Wisconsin Department of Transportation district office for more information. The phone number may be obtained by contacting your county highway department.
- All lots are hereby restricted so that no owner, possessor, user, licensee or other person may have any right of direct vehicular ingress or egress to any highway lying within the right of way of S.T.H. 29, it is expressly intended that this restriction for the benefit of the public according to section 236.293, Wisconsin Statutes, and shall be enforceable by the department or its assigns. Any access shall be allowed only by special exception. Any access allowed by special exception shall be confirmed and granted only through the driveway permitting process and all permits are revocable.
- This parcel of land may experience noise at levels exceeding the levels in S. Trans 405.04, Table 1. These levels are based on federal standards. The department of transportation is not responsible for abating noise from existing state trunk highways or connecting highways. In absence of any increase by the department to the highway's through-lane capacity.
- The field work was completed on June 13, 2014.



LEGAL DESCRIPTION:

Of Parcel 1 of Marathon County Certified Survey Map No. 15096, recorded in Volume 68 of Certified Survey Maps on Page 18 as Document No. 1503122, being a part of the Southeast 1/4 of the Southeast 1/4 of Section 23, Township 28 North, Range 8 East, Village of Weston, Marathon County, Wisconsin, more particularly described as follows:

Beginning at the Southeast Corner of said Parcel 1; Thence North 89°00'27" West along the North right of way line of Progress Way and the Westerly extension thereof, 438.92 feet to the West line of the Southeast 1/4 of the Southeast 1/4; Thence North 00°13'27" East along said West line, 321.80 feet to South line of Outlot 1 of said Marathon County Certified Survey Map No. 15096; Thence South 88°04'44" East along said South line, 60.00 feet to the East line of said Outlot 1; Thence North 00°13'27" East along said East line, 60.00 feet to South right of way line of State Trunk Highway 29; Thence South 88°04'44" East along said South right of way line, 376.34 feet to the East line of said Parcel 1; Thence South 00°11'34" East along said East line, 374.78 feet to the point of beginning.

The above described parcel of land contains 161,894 square feet, or 3.717 acres.

That said parcel is subject to easements, restrictions and right of ways of record, including a 20 foot ingress-egress easement as shown on Marathon County Certified Survey Map No. 15096 and 15 foot utility easement as shown on Weston Business and Technology Park-South.

SURVEYOR'S CERTIFICATE:

I, Nathan J. Wincentsen, Registered Land Surveyor S-2539, hereby certify to the best of my knowledge and belief, that at the direction of Urban Construction, I have surveyed and mapped the parcel as described hereon. I further certify that said survey and map thereof are a correct and accurate representation of the exterior boundaries of said parcel and that I have fully complied with the provisions of Wisconsin administrative Code A-E7 in surveying and mapping said lands.

Dated this _____ day of _____

Becher-Hoppe Associates, Inc.
Nathan J. Wincentsen
WI R.L.S. S-2539



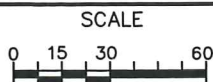
330 Fourth Street • PO Box 8000
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715.845.8000 • Fax 715.845.8008
becherhoppe.com

DRAWN BY: NJW
CHECKED BY: LTK

DATE: 6/13/14

PROJECT NO: 2014.064

REV. DATES:



Wisconsin Baseball Academy
8702 PROGRESS WAY
WESTON, WI

TOPOGRAPHIC AND BOUNDARY SURVEY

SHEET
1 OF 1

SOIL EVALUATION - STORM

in accordance with SPS 382.365 and 385, Wis. Adm. Code

Attach complete site plan on paper not less than 8 1/2 x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and BM referenced to nearest road.

Please print all information.

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m)).


County Marathon	
Parcel I.D.	
Reviewed by	Date

Property Owner Wisconsin Baseball Academy				Property Location Govt. Lot SE 1/4 SE 1/4 S 23 T 28 N R 8E E (or) W			
Property Owner's Mailing Address 8702 Progress Way				Lot # Block # Subd. Name or CSM#			
City	State	Zip Code	Phone Number	<input type="checkbox"/> City	<input checked="" type="checkbox"/> Village	<input type="checkbox"/> Town	Nearest Road
Weston	WI	54476	(715) 470-3457	Weston			8702 Progress Way

Drainage area _____ <input type="checkbox"/> sq. ft. <input type="checkbox"/> acres Optional: Test Site Suitable for (check all that apply) <input type="checkbox"/> Irrigation <input type="checkbox"/> Bioretention trench <input type="checkbox"/> Trench(es) <input type="checkbox"/> Rain garden <input type="checkbox"/> Grassed swale <input type="checkbox"/> Reuse <input type="checkbox"/> Infiltration trench <input type="checkbox"/> SDS (> 15' wide) <input type="checkbox"/> Other _____	Hydraulic Application Test Method: <input checked="" type="checkbox"/> Morphological Evaluation <input type="checkbox"/> Double-Ring Infiltrometer <input type="checkbox"/> Other (specify) _____
--	--

TP-1	Obs. #	<input type="checkbox"/> Boring <input checked="" type="checkbox"/> Pit	Ground surface elev. 1235.0 ft.	Depth to limiting factor 100 in.						Hydraulic App. Rate
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Inches/Hr	
1	0-24	10YR 2/2	--- (fill)	c	0,m	m,fi	a,w	~10	0.07	
2	24-30	10YR 3/6	---	ls	0,sg	m,lo	g,w	<5	1.63	
3	30-112	10YR 4/6	---	s	0,sg	m,lo	---	~10	3.60	
			groundwater table							
			at 100 inches							

TP-2	Obs. #	<input type="checkbox"/> Boring <input checked="" type="checkbox"/> Pit	Ground surface elev. 1234.1 ft.	Depth to limiting factor 90 in.						Hydraulic App. Rate
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Inches/Hr	
1	0-18	10YR 2/2	---	ls*	0,sg	m,lo	a,w	~5	0.50*	
2	18-30	10YR 3/6	---	ls	0,sg	m,lo	g,w	~5	1.63	
3	30-48	10YR 3/6	---	s	0,sg	m,lo	g,w	~5	3.60	
4	48-96	10YR 3/6	---	s	0,sg	m,lo	---	~10	3.60	
			groundwater table							
			at 90 inches							

CST/PSS Name (Please Print) Benjamin B. Mattson		Signature 		CST/PSS Number 1131386	
Address 4203 Schofield Avenue Suite 1, Schofield WI 54476		Date Evaluation Conducted June 17, 2014		Telephone Number (715) 359-3534	

Property Owner WI Baseball Academy

Parcel ID # _____

Page 2 of 3TP-3 Obs. # ☐ Boring
☒ Pit Ground surface elev. 1234.8 ft. Depth to limiting factor 96 in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Hydraulic App. Rate
									Inches/Hr
1	0-12	10YR 2/2	---	ls*	0,sg	m,lo	a,w	<5	0.50*
2	12-24	10YR 3/6	---	ls	0,sg	m,lo	g,w	~10	1.63
3	24-108	10YR 4/6	---	s	0,sg	m,lo	---	~10	3.60
			groundwater table						
			at 96 inches						

TP-4 Obs. # ☐ Boring
☒ Pit Ground surface elev. 1234.2 ft. Depth to limiting factor 92 in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Hydraulic App. Rate
									Inches/Hr
1	0-12	10YR 2/2	---	ls*	0,sg	m,lo	a,w	<5	0.50*
2	12-24	10YR 3/4	---	ls	0,sg	m,lo	g,w	~15	1.63
3	24-48	10YR 3/6	---	s	0,sg	m,lo	g,w	~5	3.60
4	48-98	10YR 4/6	---	sgr	0,sg	m,lo	---	~20	3.60
			groundwater table						
			at 92 inches						

TP-5 Obs. # ☐ Boring
☒ Pit Ground surface elev. 1235.6 ft. Depth to limiting factor 103 in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Hydraulic App. Rate
									Inches/Hr
1	0-14	10YR 2/2	---	ls*	0,sg	m,lo	a,w	<5	0.50*
2	14-22	10YR 3/6	---	s	0,sg	m,lo	g,w	~10	3.60
3	22-36	10YR 4/6	---	s	0,sg	m,lo	g,w	~10	3.60
4	36-48	10YR 4/6	---	sgr	0,sg	m,lo	g,w	~20	3.60
5	48-108	10YR 4/6	---	s	0,sg	m,lo	---	~10	3.60
			groundwater table						
			at 103 inches						

Property Owner WI Baseball Academy

Parcel ID # _____

Page 3 of 3

TP-6

Obs. #

☐ Boring☒ PitGround surface elev. 1234.0 ft.Depth to limiting factor 64 in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Hydraulic App. Rate
									Inches/Hr
1	0-8	10YR 2/2	---	ls*	0,sg	m,lo	a,w	~5	0.50*
2	8-16	10YR 4/3	---	ls	0,sg	m,lo	a,w	~5	1.63
3	16-36	10YR 3/6	---	s	0,sg	m,lo	g,w	~5	3.60
4	36-72	10YR 4/6	---	s	0,sg	m,lo	---	~5	3.60
			groundwater table						
			at 64 inches						

Obs. #

☐ Boring☐ Pit

Ground surface elev. _____ ft.

Depth to limiting factor _____ in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Hydraulic App. Rate
									Inches/Hr

Test Results and/or Summary Comments

Listed groundwater table depths were measured 30 to 90 minutes following completion of test pit excavation.

* Per Wisconsin DSPS, the sandy loam infiltration rate is used for loamy fine sand soil textures. These layers are marked by an asterisk in the texture and hydraulic app rate columns.



SUBSURFACE BORING LOG

AET JOB NO: **12-01547**

LOG OF BORING NO. **B-1 (p. 1 of 1)**

PROJECT: **Proposed New Building; Wisconsin Baseball Academy; 8702 Progress Way; Weston, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: 1236.1 MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	Qp	LL	PL	%-#200
1	FILL, sand with gravel, fine to medium grained, trace organics, brown, moist	FILL	23	M	SS	14					
2	FILL, silty sand with gravel, fine to medium grained, brown, moist										
3	FILL, sand with gravel, fine to medium grained, brown, moist to wet		7	M	SS	13					
4											
5											
6			18	W/M	SS	20					
7	FILL, clayey sand, fine to medium grained, a little gravel, brown, moist										
8	SAND, fine to medium grained, a little gravel, brown, moist to waterbearing, dense to medium dense (SP)	COARSE ALLUVIUM	50	M	SS	18					
9											
10			28	M/W	SS	16					
11											
12	SAND, fine to coarse grained, a little gravel, brown, waterbearing, medium dense (SP)		14	W	SS	22					
13											
14											
15	SAND, fine to medium grained, a little gravel, brown, waterbearing, loose (SP)		6	W	SS	10					
16											
End of boring at 16.5 feet											

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5	3.25" HSA								
9.5-14.5	RD w/DM	6/18/14	1035	11.5	9.5	9.8	none	9.8	
BORING COMPLETED: 6/18/14									
DR: MH LG: NP Rig: 84									



AMERICAN
ENGINEERING
TESTING, INC.

SUBSURFACE BORING LOG

AET JOB NO: **12-01547** LOG OF BORING NO. **B-2 (p. 1 of 1)**
PROJECT: **Proposed New Building; Wisconsin Baseball Academy; 8702 Progress Way; Weston, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: 1235.8 MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	Qp	LL	PL	%-#200
1	FILL, silty sand with gravel, fine to medium grained, brown, moist	FILL	8	M	SS	12					
2											
3			16	M	SS	12					
4											
5	FILL, silty sand, fine grained, grayish brown, moist		22	M	SS	18					
6	SILTY SAND, fine to medium grained, a little gravel, brown, moist, medium dense (SM)	COARSE ALLUVIUM									
7											
8	SAND, fine to medium grained, a little gravel, brown, moist to waterbearing, very dense to medium dense (SP)		56	M	SS	20					
9											
10			30	W	SS	15					
11											
12											
13	SAND, fine to coarse grained, a little gravel to with gravel, brown, waterbearing, medium dense to loose (SP)		12	W	SS	13					
14											
15			8	W	SS	17					
16											
End of boring at 16.5 feet											

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5	3.25" HSA								
9.5-14.5	RD w/DM	6/18/14	1130	11.5	9.5	9.5	none	9.2	
BORING COMPLETED: 6/18/14									
DR: MH LG: NP Rig: 84									



AMERICAN
ENGINEERING
TESTING, INC.

SUBSURFACE BORING LOG

AET JOB NO: **12-01547**

LOG OF BORING NO. **B-3 (p. 1 of 1)**

PROJECT: **Proposed New Building; Wisconsin Baseball Academy; 8702 Progress Way; Weston, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: 1235.7 MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	Qp	LL	PL	%-#200
1	FILL, mix of clayey sand and sandy lean clay, a little gravel, brown	FILL	5	M	SS	7					
2											
3			13	M	SS	15					
4											
5	SAND, fine to medium grained, a little gravel, reddish brown, moist, medium dense (SP)	COARSE ALLUVIUM	14	M	SS	19					
6											
7	SAND, fine to coarse grained, a little gravel, brown, moist to waterbearing, medium dense to loose (SP)		28	M	SS	24					
8											
9											
10			10	W	SS	12					
11	SAND, fine to medium grained, brown, waterbearing, very loose (SP)										
12			4	W	SS	24					
13											
14	SAND, fine to coarse grained, a little gravel, brown, waterbearing, loose (SP)										
15			8	W	SS	12					
16	End of boring at 16.5 feet										

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5	3.25" HSA								
9.5-14.5	RD w/DM	6/18/14	1220	11.5	9.5	9.5	none	9.0	
BORING COMPLETED: 6/18/14									
DR: MH LG: NP Rig: 84									



AMERICAN
ENGINEERING
TESTING, INC.

SUBSURFACE BORING LOG

AET JOB NO: **12-01547**

LOG OF BORING NO. **B-4 (p. 1 of 1)**

PROJECT: **Proposed New Building; Wisconsin Baseball Academy; 8702 Progress Way; Weston, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: 1236.4 MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	Qp	LL	PL	%-#200
1	FILL, sand with gravel, fine to medium grained, brown, moist	FILL	4	M	SS	14					
2											
3			2	M	SS	8					
4	FILL, sandy lean clay, a little gravel, brown	COARSE ALLUVIUM									
5											
6	SAND, fine to medium grained, a little gravel, brown, moist, medium dense (SP)		11	M	SS	17					
7											
8			19	M	SS	15					
9											
10	SAND, fine to coarse grained, a little gravel, brown, moist to waterbearing, medium dense to loose (SP)		11	M/W	SS	13					
11											
12											
13			9	W	SS	14					
14											
15	SAND, fine to medium grained, brown, waterbearing, loose (SP)		6	W	SS	20					
16											
End of boring at 16.5 feet											

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5	3.25" HSA								
9.5-14.5	RD w/DM	6/18/14	1350	11.5	9.5	9.8	none	9.8	
BORING COMPLETED: 6/18/14									
DR: MH LG: NP Rig: 84									



SUBSURFACE BORING LOG

AET JOB NO: **12-01547**

LOG OF BORING NO. **B-5 (p. 1 of 1)**

PROJECT: **Proposed New Building; Wisconsin Baseball Academy; 8702 Progress Way; Weston, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: 1235.3 MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	Qp	LL	PL	%-#200
1	FILL, sand with silt and gravel, fine to medium grained, brown, moist	FILL	6	M	SS	8					
2											
3			4	M	SS	12					
4	SAND, fine to medium grained, a little gravel, reddish brown to brown, moist, very loose to medium dense (SP)	COARSE ALLUVIUM									
5			30	M	SS	15					
6											
7			30	M	SS	16					
8	SAND, fine to coarse grained, a little gravel to with gravel, moist to waterbearing, medium dense to loose (SP)										
9											
10			11	M/W	SS	9					
11											
12											
13			7	W	SS	8					
14											
15			8	W	SS	24					
16	End of boring at 16.5 feet										

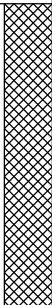














DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5	3.25" HSA								
9.5-14.5	RD w/DM	6/18/14	1445	11.5	9.5	10.0	none	10.0	
BORING COMPLETED: 6/18/14									
DR: MH LG: NP Rig: 84									



AMERICAN
ENGINEERING
TESTING, INC.

SUBSURFACE BORING LOG

AET JOB NO: **12-01547** LOG OF BORING NO. **B-6 (p. 1 of 1)**
PROJECT: **Proposed New Building; Wisconsin Baseball Academy; 8702 Progress Way; Weston, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: <u>1236.2</u> MATERIAL DESCRIPTION		GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS						
								WC	Qp	LL	PL	%-#200		
1	FILL, sand with silt and gravel, fine to medium grained, brown, moist		FILL	8	M		SS	13						
2														
3				12	M		SS	13						
4														
5	SAND, fine to medium grained, brown, moist, medium dense (SP)		COARSE ALLUVIUM	26	M		SS	20						
6														
7	SAND, fine to coarse grained, a little gravel to with gravel, brown, moist to waterbearing, medium dense to loose (SP)													
8				19	M/W		SS	14						
9														
10														
11				7	W		SS	15						
12														
13				6	W		SS	17						
14														
15														
16							7	W		SS	15			
End of boring at 16.5 feet														

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5	3.25" HSA								
9.5-14.5	RD w/DM	6/18/14	1530	11.5	9.5	9.0	none	8.6	
BORING COMPLETED: 6/18/14									
DR: MH LG: NP Rig: 84									



SUBSURFACE BORING LOG

AET JOB NO: **12-01547** LOG OF BORING NO. **B-7 (p. 1 of 1)**
PROJECT: **Proposed New Building; Wisconsin Baseball Academy; 8702 Progress Way; Weston, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: 1235.1 MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	Qp	LL	PL	%-#200
1	About 6 inches of topsoil, consisting of SILTY SAND with organics, fine to medium grained, brown, moist, loose (SM)	TOPSOIL	6	M	SS	10					
2	SILTY SAND, fine to medium grained, brown, moist, loose (SM)	COARSE ALLUVIUM									
3	SAND with gravel, fine to coarse grained, brown, moist, medium dense (SP)		21	M	SS	18					
4											
5	SAND, fine to medium grained, brown, moist, medium dense (SP)		16	M	SS	14					
6											
7	SAND with gravel, fine to coarse grained, brown, moist, loose (SP)		9	M	SS	16					
8											
9											
10	SAND, fine to medium grained, brown, moist to waterbearing, loose (SP)		5	M/W	SS	14					
11											
12	SAND with gravel, fine to coarse grained, brown, waterbearing, loose (SP)		8	W	SS	12					
13											
14											
15			10	W	SS	24					
16											
End of boring at 16.5 feet											

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5	3.25" HSA								
9.5-14.5	RD w/DM	6/20/14	1530	11.5	9.5	10.3	none	10.3	
BORING COMPLETED: 6/20/14									
DR: MH LG: NK Rig: 84									

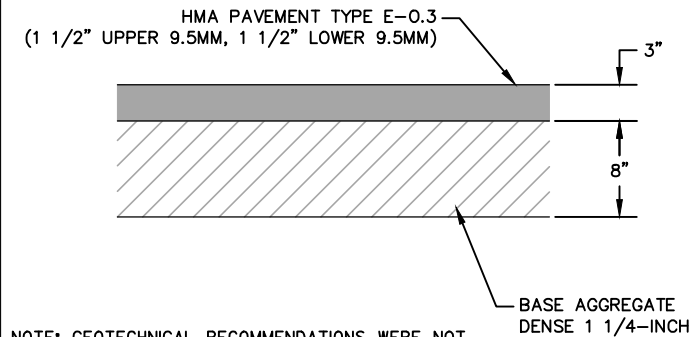


SUBSURFACE BORING LOG

AET JOB NO: 12-01547					LOG OF BORING NO. B-8 (p. 1 of 1)						
PROJECT: Proposed New Building; Wisconsin Baseball Academy; 8702 Progress Way; Weston, Wisconsin											
DEPTH IN FEET	SURFACE ELEVATION: 1231.5 MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	Qp	LL	PL	%-#200
1	SAND, fine to medium grained, a little gravel, brown, moist, dense (SP)	COARSE ALLUVIUM	32	M	SS	20					
2											
3											
4											
5	SAND with gravel, fine to coarse grained, brown, moist to waterbearing, medium dense (SP)		25	M/W	SS	18					
6											
7											
8											
9	SAND, fine to medium grained, a little gravel, brown, waterbearing, loose (SP)		11	W	SS	20					
10											
11											
12											
13			8	W	SS	18					
14											
15											
16											
End of boring at 16.5 feet											

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-7	3.25" HSA								
7-14.5	RD w/DM	6/20/14	1630	9.0	7.0	7.0	none	6.3	
BORING COMPLETED: 6/20/14									
DR: MH LG: NK Rig: 84									

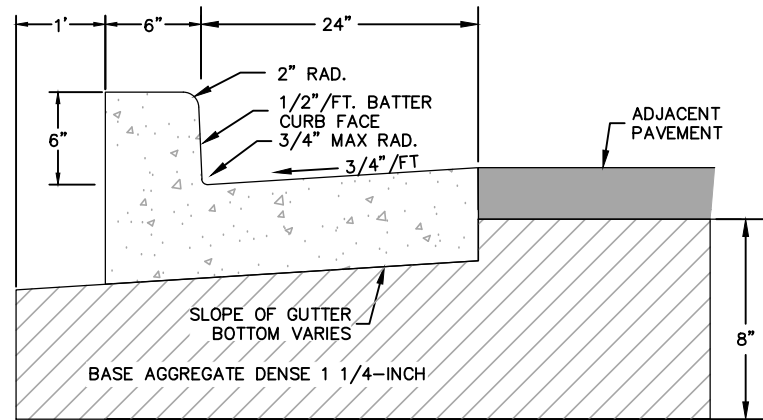
Appendix C: Erosion Control Plan & Detail Information



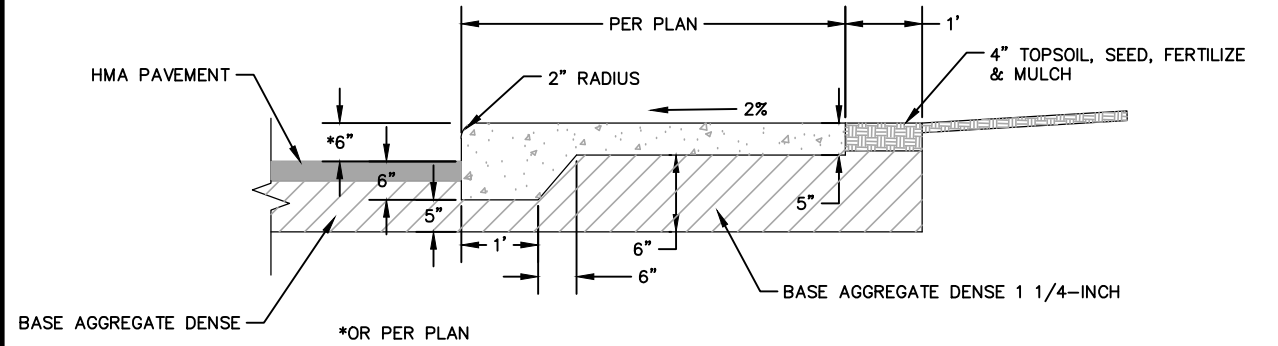
NOTE: GEOTECHNICAL RECOMMENDATIONS WERE NOT AVAILABLE AT THE TIME OF PLAN DEVELOPMENT. VERIFY PAVEMENT SECTION WITH GEOTECHNICAL REPORT RECOMMENDATIONS AND ADJUST AS NOTED.

WHERE SILT OR CLAY SOILS ARE EXPOSED AT SUBGRADE ELEVATION (BELOW BASE COURSE), WE RECOMMEND THE PLACEMENT OF GEOSYNTHETIC SEPARATION FABRIC MEETING THE REQUIREMENTS OF WISDOT 645, TYPE SAS.

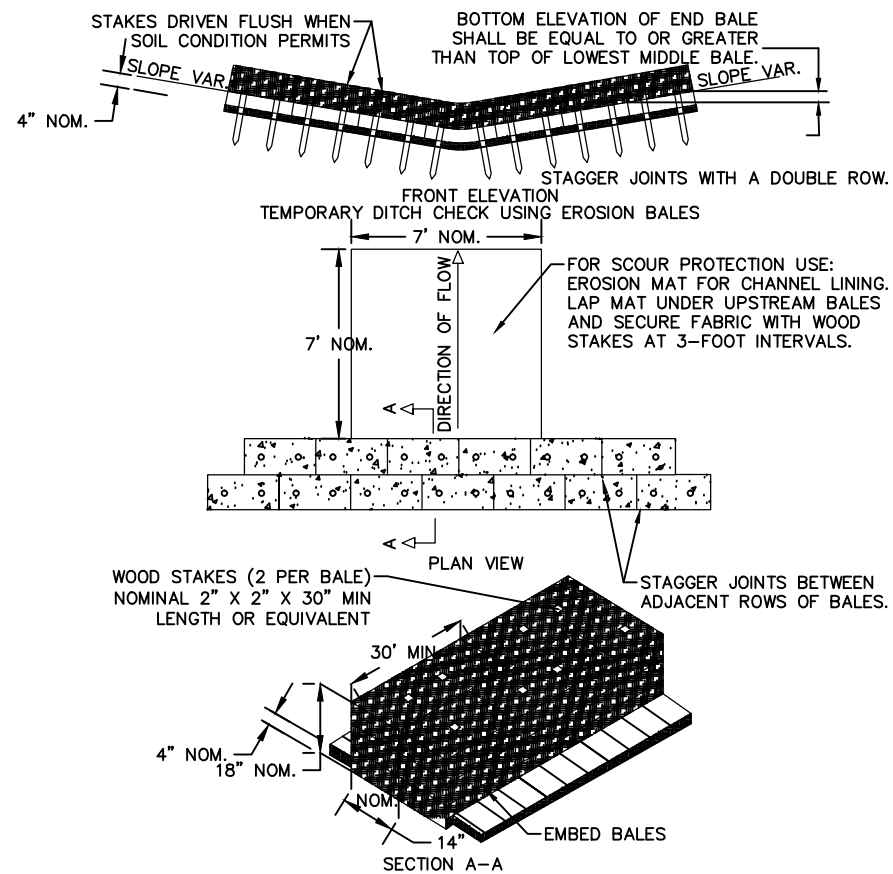
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HMA PAVEMENT SECTION
2.00 NOT TO SCALE



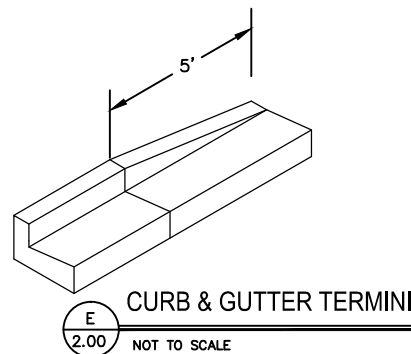
B
CONCRETE CURB & GUTTER 30-INCH TYPE D
2.00 NOT TO SCALE



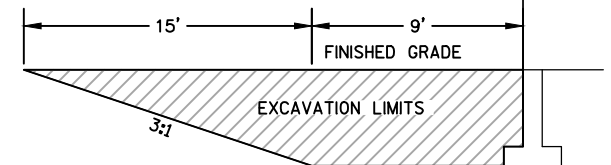
C
INTEGRAL CURB & SIDEWALK DETAIL
2.00 NOT TO SCALE



D
EROSION BALES
2.00 NOT TO SCALE



E
CURB & GUTTER TERMINI
2.00 NOT TO SCALE



F
EXCAVATION UNDER SIDEWALK AREAS
2.00 NOT TO SCALE

LAYOUT: 2.00
PLOT TIME: 7/1/2014 9:49 PM
FILE NAME: P:\2014\2014.064 - Urban Construction - Baseball Acad\CAD\Plans\2014064_2.00_CD.dwg
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DRAWN BY: BHA
CHECKED BY: MMH

DATE: 6/20/14

PROJECT NO:

REV. DATES:

SCALE
NONE

URBAN CONSTRUCTION
WISCONSIN BASEBALL ACADEMY
8706 PROGRESS WAY

CONSTRUCTION DETAILS

SHEET
2.00





The image contains several technical drawings for silt fence construction:

- JOINING TWO LENGTHS OF SILT FENCE:** Shows two methods of joining silt fence sections. The first method uses a hook between two wood posts, with a minimum 1'-0" gap and a 2'-0" minimum distance between posts. The second method shows a trench detail where the silt fence is installed in an excavated and recompact soil, with a tieback between the fence post and an anchor.
- SILT FENCE TIE BACK:** A detail showing the silt fence being tied back to an anchor stake, which is at least 18" long. The flow direction is indicated.
- ALTERNATE "B" SILT FENCE:** A cross-section view of a silt fence. It shows a trench filled with excavated soil, with the silt fence fabric reinforced with support netting. The trench is 4'-0" wide and 6" deep. The silt fence fabric is 3' wide and 3' high. The trench is backfilled and compacted with excavated soil. The silt fence is anchored to the ground with wood posts (4'-0" min. length, 2'-0" min. depth) and a support wire. The silt fence fabric is reinforced with support netting. The trench is 4'-0" wide and 6" deep. The silt fence fabric is 3' wide and 3' high. The trench is backfilled and compacted with excavated soil. The silt fence is anchored to the ground with wood posts (4'-0" min. length, 2'-0" min. depth) and a support wire. The silt fence fabric is reinforced with support netting.
- ALTERNATE "A" SILT FENCE:** A cross-section view of a silt fence. It shows a trench filled with excavated soil, with the silt fence fabric reinforced with support netting. The trench is 4'-0" wide and 6" deep. The silt fence fabric is 3' wide and 3' high. The trench is backfilled and compacted with excavated soil. The silt fence is anchored to the ground with wood posts (4'-0" min. length, 2'-0" min. depth) and a support wire. The silt fence fabric is reinforced with support netting.

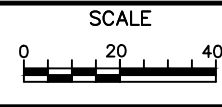
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FILE NAME: P:\2014\2014.064 - Urban Construction - Baseball Acad\CAD\Plans\2014064_3.20_GR.dwg
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DATE: 6/20/14

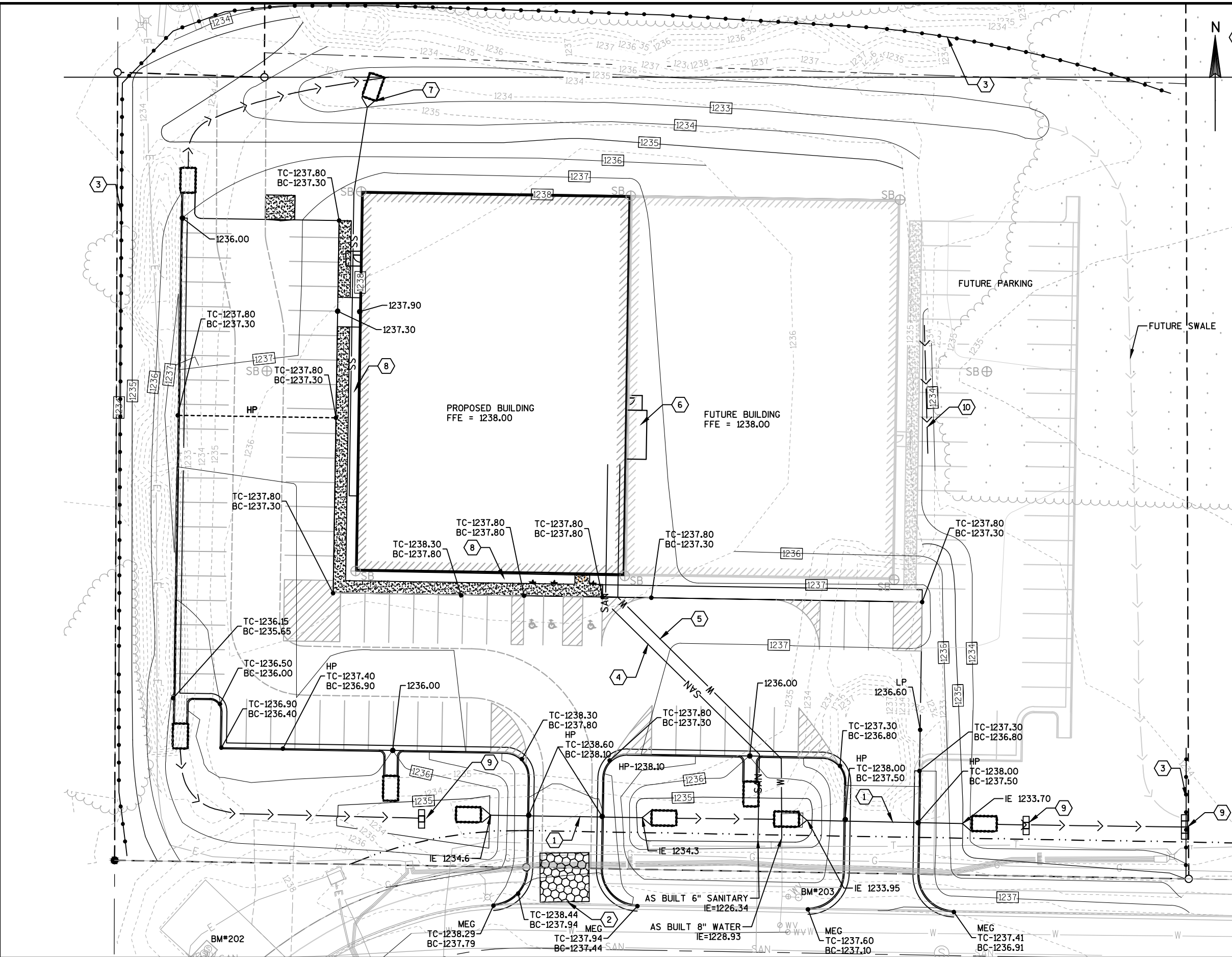
PROJECT NO:
REV. DATES: 7/1/14



URBAN CONSTRUCTION
WISCONSIN BASEBALL ACADEMY
8706 PROGRESS WAY

GRADING, EROSION CONTROL, & UTILITY PLAN

SHEET
3.20



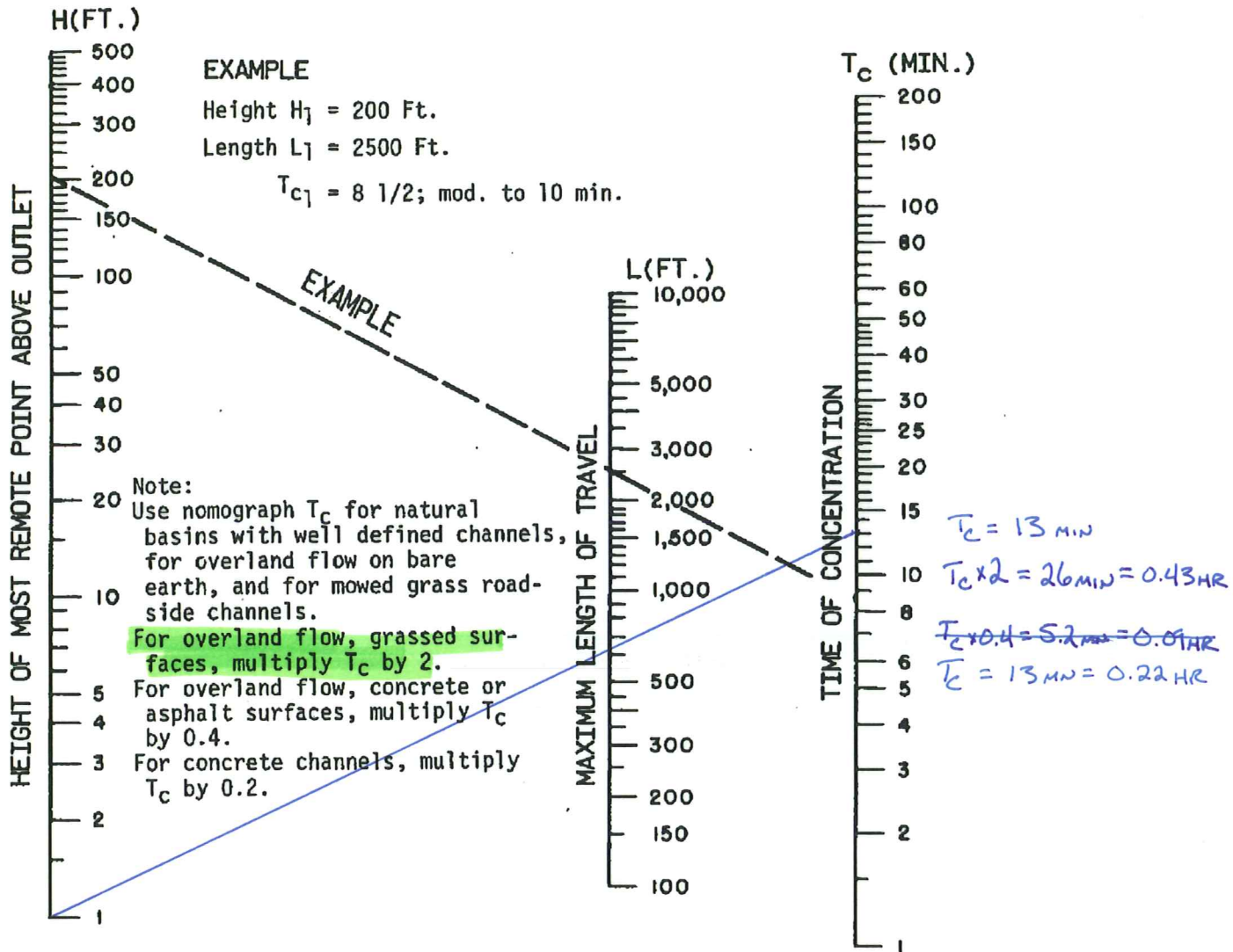
- ### KEYED NOTES
1. 64 LF OF 18" HOPE CULVERT PIPE WITH APRON ENDWALLS.
 2. INSTALL TRACK PAD. SEE DETAIL B/2.02.
 3. INSTALL SILT FENCE. SEE DETAIL C/2.02.
 4. INSTALL 6" SCHEDULE 40 PVC SANITARY SEWER LATERAL WITH TRACER WIRE @ 1% MINIMUM. PROVIDE FITTINGS AS NECESSARY. CONTRACTOR TO VERIFY DEPTH AT BUILDING WITH PLUMBING PLANS. SEE DETAIL A/2.05 & B/2.05.
 5. INSTALL 2" CORPORATION STOP TO 8" WATER STUB. CONNECT 2" TYPE L COPPER WATER SERVICE VERIFY DEPTH AT BUILDING WITH PLUMBING PLANS. 2" INSULATION OVER PIPE THROUGH DITCH AREA. SEE DETAIL C/2.05 & D/2.05.
 6. ALL OTHER UTILITY SERVICES: ELECTRICAL, GAS, COMMUNICATION, ETC. SHALL BE COORDINATED BY ARCHITECT.
 7. 6" SCHEDULE 40 PVC ROOF DRAIN, CLEAN OUT, 4" THICK INSULATION OVER PIPE, DRAIN TO DAYLIGHT AT 1234.00
 8. EXCAVATE FOR SOUTH & WEST SIDE OF BUILDING UNDER SIDEWALK AND PAVEMENT AREAS. SEE DETAIL F/2.00. SEE SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
 9. DITCH PROTECTION, EROSION BALES. SEE DETAIL D/2.00.
 10. CONTRACTOR TO GRADE A FLAT BOTTOM DITCH AT ELEVATION 1234, TO ALLOW OVERFLOW TO OFF SITE STORMWATER DETENTION AREA.

BENCH MARKS		
NO.	DESCRIPTION	ELEV.
202	BM ON CONCRETE	1238.73
203	BURY BOLT ON HYDRANT	1238.83

- ### NOTES
- A. CONTRACTOR IS RESPONSIBLE FOR VILLAGE OF WESTON PERMITTING FOR WORK WITHIN RIGHT OF WAY.
- B. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A MINIMUM HORIZONTAL CLEARANCE OF 8' BETWEEN SEWER AND WATER LINES MEASURED CENTER TO CENTER. WATER CROSSING OVER SEWER SHALL HAVE 12" MINIMUM VERTICAL CLEARANCE AND WATER CROSSING BENEATH SEWER SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18". SEE DETAIL B/C213. VERTICAL CLEARANCES ARE MEASURED FROM OUTSIDE PIPE DIAMETER.
- C. SEE DETAIL E/C213 FOR PIPE BEDDING AND UTILITY TRENCH.
- D. PIPING NOT MEETING MINIMUM COVER REQUIREMENTS AS INDICATED IN CHAPTER SPS 382 OF STATE OF WISCONSIN ADMINISTRATIVE CODE SHALL BE INSULATED ACCORDINGLY.
- E. ALL SANITARY, STORM SEWER, WATER CONNECTIONS, SERVICES AND INSTALLATIONS SHALL MEET ALL LOCAL AND STATE REGULATIONS.
- F. 4"O TOPSOIL SEED, FERTILIZER AND MULCH ALL DISTURBED AREAS.

Appendix D: Pre-Construction Analysis

TIME OF CONCENTRATION OF SMALL

 T_c
DRAINAGE BASINS


Based on study by P. Z. Kirpich,
Civil Engineering, Vol. 10, No. 6, June 1940, p.362

RUNOFF CURVE NUMBER COMPUTATION

Version 2.10

Project : WI BASEBALL ACADEMY User: DJG Date: 06-20-2014
 County : MARATHON State: WI Checked: _____ Date: _____
 Subtitle: **EXISTING CONDITIONS**

COVER DESCRIPTION	Hydrologic Soil Group			
	A	B	C	D
Acres (CN)				

CULTIVATED AGRICULTURAL LANDS				
Close-seeded Straight row legumes or rotation meadow	good	3.77(58)	-	-
Total Area (by Hydrologic Soil Group)		3.77		
		====		

SUBAREA: SITE	TOTAL DRAINAGE AREA: 3.77 Acres		WEIGHTED CURVE NUMBER: 58*	

* - Generated for use by GRAPHIC method				

GRAPHICAL PEAK DISCHARGE METHOD

Version 2.10

Project : WI BASEBALL ACADEMY User: DJG Date: 06-20-2014
 County : MARATHON State: WI Checked: _____ Date: _____
 Subtitle: **EXISTING CONDITIONS**

Data: Drainage Area: 3.77 * Acres
 Runoff Curve Number: 58 *
 Time of Concentration: 0.43 Hours
 Rainfall Type: II
 Pond and Swamp Area: NONE

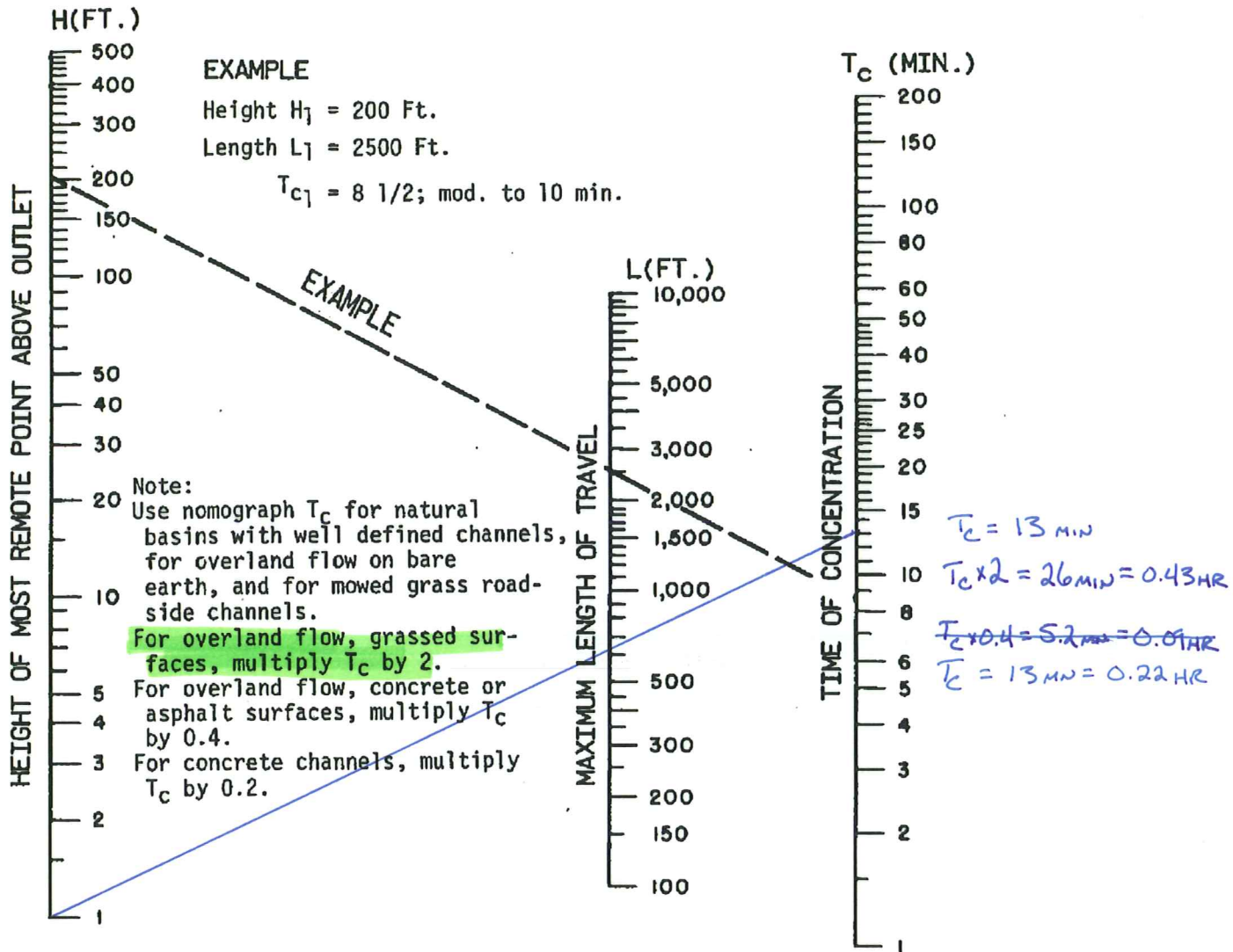
=====				
Storm Number	1	2	3	4
Frequency (yrs)	2	10	25	100
24-Hr Rainfall (in)	2.7	4.0	4.5	5.7
Ia/P Ratio	0.54	0.36	0.32	0.25
Used	0.50	0.36	0.32	0.25
Runoff (in)	0.18	0.66	0.90	1.57
Unit Peak Discharge (cfs/acre/in)	0.387	0.651	0.712	0.778
Pond and Swamp Factor 0.0% Ponds Used	1.00	1.00	1.00	1.00
Peak Discharge (cfs)	0	2	2	5
=====				

* - Value(s) provided from TR-55 system routines

Q2 = 0.18 * 0.387 * 3.77 = 0.26 cfs
 Q10 = 0.66 * 0.651 * 3.77 = 1.62 cfs

Appendix E: Post-Construction Analysis

TIME OF CONCENTRATION OF SMALL

 T_c
DRAINAGE BASINS


Based on study by P. Z. Kirpich,
Civil Engineering, Vol. 10, No. 6, June 1940, p.362

RUNOFF CURVE NUMBER COMPUTATION

Version 2.10

Project : WI BASEBALL ACADEMY User: DJG Date: 06-20-2014
 County : MARATHON State: WI Checked: _____ Date: _____
 Subtitle: **PROPOSED CONDITIONS**

COVER DESCRIPTION	Hydrologic Soil Group			
	A	B	C	D
Acres (CN)				
FULLY DEVELOPED URBAN AREAS (Veg Estab.)				
Open space (Lawns,parks etc.)				
Good condition; grass cover > 75%	1.89(39)	-	-	-
Impervious Areas				
Paved parking lots, roofs, driveways	1.88(98)	-	-	-
Total Area (by Hydrologic Soil Group)	3.77			
	====			

SUBAREA: SITE TOTAL DRAINAGE AREA: 3.77 Acres WEIGHTED CURVE NUMBER: 68*

* - Generated for use by GRAPHIC method

GRAPHICAL PEAK DISCHARGE METHOD

Version 2.10

Project : WI BASEBALL ACADEMY User: DJG Date: 06-20-2014
 County : MARATHON State: WI Checked: _____ Date: _____
 Subtitle: **PROPOSED CONDITIONS**

Data: Drainage Area: 3.77 * Acres
 Runoff Curve Number: 68 *
 Time of Concentration: 0.22 Hours
 Rainfall Type: II
 Pond and Swamp Area: NONE

Storm Number	1	2	3	4
Frequency (yrs)	2	10	25	100
24-Hr Rainfall (in)	2.7	4.0	4.5	5.7
Ia/P Ratio	0.35	0.24	0.21	0.17
Runoff (in)	0.48	1.20	1.53	2.39
Unit Peak Discharge (cfs/acre/in)	0.963	1.101	1.123	1.158
Pond and Swamp Factor 0.0% Ponds Used	1.00	1.00	1.00	1.00
Peak Discharge (cfs)	2	5	6	10

* - Value(s) provided from TR-55 system routines

Q2 = 0.48 * 0.963 * 3.77 = 1.74 cfs
 Q10 = 1.20 * 1.101 * 3.77 = 4.98 cfs

STORAGE VOLUME FOR DETENTION BASINS

Version 2.10

Project : WI BASEBALL ACADEMY User: DJG Date: 06-20-2014
County : MARATHON State: WI Checked: _____ Date: _____
Subtitle: POST CONSTRUCTION REQUIRED STORAGE

Drainage Area: 3.77 Acres Rainfall Frequency: 2 years
Rainfall-Type: II
Runoff: 0.5 inches
Peak Inflow: 1.74 cfs
Peak Outflow: 0.26 cfs
Detention Basin Storage Volume: 0.24 inches or 0.1 acre feet

2-YEAR STORAGE = (0.24/12) * (43,560 sf/ac) * 3.77 ac = 3,285 ft³

STORAGE VOLUME FOR DETENTION BASINS

Version 2.10

Project : WI BASEBALL ACADEMY User: DJG Date: 06-20-2014
County : MARATHON State: WI Checked: _____ Date: _____
Subtitle: POST CONSTRUCTION REQUIRED STORAGE

Drainage Area: 3.77 Acres Rainfall Frequency: 10 years
Rainfall-Type: II
Runoff: 1.2 inches
Peak Inflow: 5.00 cfs
Peak Outflow: 1.62 cfs
Detention Basin Storage Volume: 0.44 inches or 0.1 acre feet

10-YEAR STORAGE = (0.44/12) * (43,560 sf/ac) * 3.77 ac = 6,021 ft³

Available Storage within existing Regional Retention Pond:

Existing Retention Pond Capacity					
Elevation (ft)	Area Acre	Area ft ²	Volume ft ³	Cum. Volume for Storage (ft ³)	Volume Acre-ft
1230.50	0.068	2,973	-	-	-
1231.00	0.103	4,488	1,865	1,865	0.04
1232.00	0.185	8,077	6,283	8,148	0.19
1233.00	0.270	11,749	9,913	18,061	0.41
1234.00	0.356	15,505	13,627	31,688	0.73
1235.00	0.444	19,345	17,425	49,113	1.13

Appendix F: WinSLAMM Inputs and Outputs

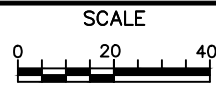
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CHECKED BY: MMH
DATE: 6/20/14

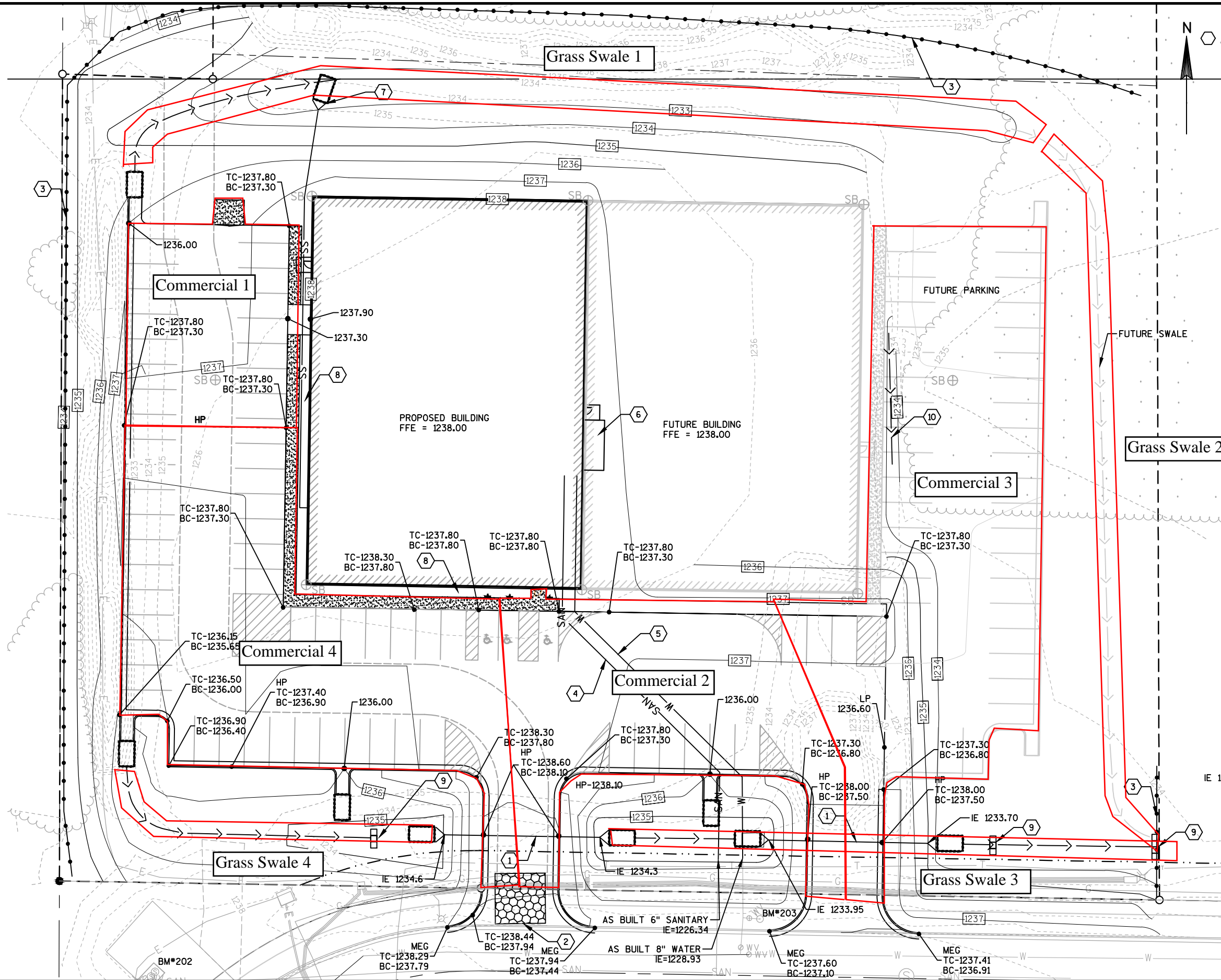
PROJECT NO:
REV. DATES: 7/1/14



URBAN CONSTRUCTION
WISCONSIN BASEBALL ACADEMY
8706 PROGRESS WAY

GRADING, EROSION CONTROL, & UTILITY PLAN

SHEET
3.20



KEYED NOTES

1. 64 LF OF 18" HOPE CULVERT PIPE WITH APRON ENDWALLS.
2. INSTALL TRACK PAD. SEE DETAIL B/2.02.
3. INSTALL SILT FENCE. SEE DETAIL C/2.02.
4. INSTALL 6" SCHEDULE 40 PVC SANITARY SEWER LATERAL WITH TRACER WIRE @ 1% MINIMUM. PROVIDE FITTINGS AS NECESSARY. CONTRACTOR TO VERIFY DEPTH AT BUILDING WITH PLUMBING PLANS. SEE DETAIL A/2.05 & B/2.05.
5. INSTALL 2" CORPORATION STOP TO 8" WATER STUB. CONNECT 2" TYPE L COPPER WATER SERVICE VERIFY DEPTH AT BUILDING WITH PLUMBING PLANS. 2" INSULATION OVER PIPE THROUGH DITCH AREA. SEE DETAIL C/2.05 & D/2.05.
6. ALL OTHER UTILITY SERVICES: ELECTRICAL, GAS, COMMUNICATION, ETC. SHALL BE COORDINATED BY ARCHITECT.
7. 6" SCHEDULE 40 PVC ROOF DRAIN, CLEAN OUT, 4" THICK INSULATION OVER PIPE, DRAIN TO DAYLIGHT AT 1234.00
8. EXCAVATE FOR SOUTH & WEST SIDE OF BUILDING UNDER SIDEWALK AND PAVEMENT AREAS. SEE DETAIL F/2.00. SEE SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
9. DITCH PROTECTION, EROSION BALES. SEE DETAIL D/2.00.
10. CONTRACTOR TO GRADE A FLAT BOTTOM DITCH AT ELEVATION 1234, TO ALLOW OVERFLOW TO OFF SITE STORMWATER DETENTION AREA.

BENCH MARKS

NO.	DESCRIPTION	ELEV.
202	BM ON CONCRETE	1238.73
203	BURY BOLT ON HYDRANT	1238.83

NOTES

- A. CONTRACTOR IS RESPONSIBLE FOR VILLAGE OF WESTON PERMITTING FOR WORK WITHIN RIGHT OF WAY.
- B. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A MINIMUM HORIZONTAL CLEARANCE OF 8' BETWEEN SEWER AND WATER LINES MEASURED CENTER TO CENTER. WATER CROSSING OVER SEWER SHALL HAVE 12" MINIMUM VERTICAL CLEARANCE AND WATER CROSSING BENEATH SEWER SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18". SEE DETAIL B/C213. VERTICAL CLEARANCES ARE MEASURED FROM OUTSIDE PIPE DIAMETER.
- C. SEE DETAIL E/C213 FOR PIPE BEDDING AND UTILITY TRENCH.
- D. PIPING NOT MEETING MINIMUM COVER REQUIREMENTS AS INDICATED IN CHAPTER SPS 382 OF STATE OF WISCONSIN ADMINISTRATIVE CODE SHALL BE INSULATED ACCORDINGLY.
- E. ALL SANITARY, STORM SEWER, WATER CONNECTIONS, SERVICES AND INSTALLATIONS SHALL MEET ALL LOCAL AND STATE REGULATIONS.
- F. 4"O TOPSOIL SEED, FERTILIZER AND MULCH ALL DISTURBED AREAS.

WinSLAMM Grass Swale No. 1 Inputs

Grass Swales

Drainage System Control Practice
Grass Swale Number 1

Grass Swale Data	
Total Drainage Area (ac)	0.122
Fraction of Drainage Area Served by Swales (0-1)	1.00
Swale Density (ft/ac)	1362.96
Total Swale Length (ft)	368
Average Swale Length to Outlet (ft)	340
Typical Bottom Width (ft)	3.0
Typical Swale Side Slope (__ ft H : 1 ft V)	4.0
Typical Longitudinal Slope (ft/ft, V/H)	0.005
Swale Retardance Factor	D
Typical Grass Height (in)	2.0
Swale Dynamic Infiltration Rate (in/hr)	1.000
Typical Swale Depth (ft) for Cost Analysis (Optional)	0.0

Select infiltration rate by soil type

- ☐ Sand - 4 in/hr
- ☐ Loamy sand - 1.25 in/hr
- ☐ Sandy loam - 0.5 in/hr
- ☐ Loam - 0.25 in/hr
- ☐ Silt loam - 0.15 in/hr
- ☐ Sandy clay loam - 0.1 in/hr
- ☐ Clay loam - 0.05 in/hr
- ☐ Silty clay loam - 0.025 in/hr
- ☐ Sandy clay - 0.025 in/hr
- ☐ Silty clay - 0.02 in/hr
- ☐ Clay - 0.01 in/hr

☒ Use Total Swale Length Instead of Swale Density for Infiltration Calculations

Total area served by swales (acres): 0.122
 Total area (acres): 0.122

Select Particle Size Distribution File
 Particle Size Distribution File Name

C:\WinSLAMM Files\NURP.CPZ

View Retardance Table

Select Swale Density by Land Use

- ☐ Low density residential - 240 ft/ac
- ☐ Medium density residential - 350 ft/ac
- ☐ High density residential - 375 ft/ac
- ☐ Strip commercial - 410 ft/ac
- ☐ Shopping center - 90 ft/ac
- ☐ Industrial - 260 ft/ac
- ☐ Freeways (shoulder only) - 480 ft/ac
- ☐ Freeways (center and shoulder) - 540 ft/ac

Copy Swale Data

Paste Swale Data

Delete

Cancel

Continue

Control Practice # : 1
 CP Index # : 1

WinSLAMM Grass Swale No. 2 Inputs

Grass Swales

Drainage System Control Practice
Grass Swale Number 2

Grass Swale Data	
Total Drainage Area (ac)	0.501
Fraction of Drainage Area Served by Swales (0-1)	1.00
Swale Density (ft/ac)	517.72
Total Swale Length (ft)	336
Average Swale Length to Outlet (ft)	150
Typical Bottom Width (ft)	3.0
Typical Swale Side Slope (__ ft H : 1 ft V)	4.0
Typical Longitudinal Slope (ft/ft, V/H)	0.005
Swale Retardance Factor	D ▼
Typical Grass Height (in)	2.0
Swale Dynamic Infiltration Rate (in/hr)	1.000
Typical Swale Depth (ft) for Cost Analysis (Optional)	0.0

Select infiltration rate by soil type

- ☐ Sand - 4 in/hr
- ☐ Loamy sand - 1.25 in/hr
- ☐ Sandy loam - 0.5 in/hr
- ☐ Loam - 0.25 in/hr
- ☐ Silt loam - 0.15 in/hr
- ☐ Sandy clay loam - 0.1 in/hr
- ☐ Clay loam - 0.05 in/hr
- ☐ Silty clay loam - 0.025 in/hr
- ☐ Sandy clay - 0.025 in/hr
- ☐ Silty clay - 0.02 in/hr
- ☐ Clay - 0.01 in/hr

☒ Use Total Swale Length Instead of Swale Density for Infiltration Calculations
 Total area served by swales (acres): 0.501
 Total area (acres): 0.501

Select Particle Size Distribution File
 Particle Size Distribution File Name

C:\WinSLAMM Files\NURP.CPZ

View Retardance Table

Select Swale Density by Land Use

- ☐ Low density residential - 240 ft/ac
- ☐ Medium density residential - 350 ft/ac
- ☐ High density residential - 375 ft/ac
- ☐ Strip commercial - 410 ft/ac
- ☐ Shopping center - 90 ft/ac
- ☐ Industrial - 260 ft/ac
- ☐ Freeways (shoulder only) - 480 ft/ac
- ☐ Freeways (center and shoulder) - 540 ft/ac

Copy Swale Data

Paste Swale Data

Delete

Cancel

Continue

Control Practice #: 2
 CP Index #: 2

WinSLAMM Grass Swale No. 3 Inputs

Grass Swales

Drainage System Control Practice
Grass Swale Number 3

Grass Swale Data	
Total Drainage Area (ac)	0.596
Fraction of Drainage Area Served by Swales (0-1)	1.00
Swale Density (ft/ac)	995.93
Total Swale Length (ft)	245
Average Swale Length to Outlet (ft)	245
Typical Bottom Width (ft)	2.0
Typical Swale Side Slope (__ ft H : 1 ft V)	4.0
Typical Longitudinal Slope (ft/ft, V/H)	0.005
Swale Retardance Factor	D ▾
Typical Grass Height (in)	2.0
Swale Dynamic Infiltration Rate (in/hr)	1.000
Typical Swale Depth (ft) for Cost Analysis (Optional)	0.0

Select infiltration rate by soil type

- ☐ Sand - 4 in/hr
- ☐ Loamy sand - 1.25 in/hr
- ☐ Sandy loam - 0.5 in/hr
- ☐ Loam - 0.25 in/hr
- ☐ Silt loam - 0.15 in/hr
- ☐ Sandy clay loam - 0.1 in/hr
- ☐ Clay loam - 0.05 in/hr
- ☐ Silty clay loam - 0.025 in/hr
- ☐ Sandy clay - 0.025 in/hr
- ☐ Silty clay - 0.02 in/hr
- ☐ Clay - 0.01 in/hr

☒ Use Total Swale Length Instead of Swale Density for Infiltration Calculations
 Total area served by swales (acres): 0.596
 Total area (acres): 0.596

Select Particle Size Distribution File

Particle Size Distribution File Name
 C:\WinSLAMM Files\NURP.CPZ

View Retardance Table

Select Swale Density by Land Use

- ☐ Low density residential - 240 ft/ac
- ☐ Medium density residential - 350 ft/ac
- ☐ High density residential - 375 ft/ac
- ☐ Strip commercial - 410 ft/ac
- ☐ Shopping center - 90 ft/ac
- ☐ Industrial - 260 ft/ac
- ☐ Freeways (shoulder only) - 480 ft/ac
- ☐ Freeways (center and shoulder) - 540 ft/ac

Copy Swale Data

Paste Swale Data

Delete

Cancel

Continue

Control Practice # : 3
 CP Index # : 3

WinSLAMM Grass Swale No. 4 Inputs

Grass Swales

Drainage System Control Practice
Grass Swale Number 4

Grass Swale Data	
Total Drainage Area (ac)	0.350
Fraction of Drainage Area Served by Swales (0-1)	1.00
Swale Density (ft/ac)	297.03
Total Swale Length (ft)	60
Average Swale Length to Outlet (ft)	50
Typical Bottom Width (ft)	2.0
Typical Swale Side Slope (__ ft H : 1 ft V)	4.0
Typical Longitudinal Slope (ft/ft, V/H)	0.005
Swale Retardance Factor	D
Typical Grass Height (in)	2.0
Swale Dynamic Infiltration Rate (in/hr)	1.000
Typical Swale Depth (ft) for Cost Analysis (Optional)	0.0

Select infiltration rate by soil type

- ☐ Sand - 4 in/hr
- ☐ Loamy sand - 1.25 in/hr
- ☐ Sandy loam - 0.5 in/hr
- ☐ Loam - 0.25 in/hr
- ☐ Silt loam - 0.15 in/hr
- ☐ Sandy clay loam - 0.1 in/hr
- ☐ Clay loam - 0.05 in/hr
- ☐ Silty clay loam - 0.025 in/hr
- ☐ Sandy clay - 0.025 in/hr
- ☐ Silty clay - 0.02 in/hr
- ☐ Clay - 0.01 in/hr

☒ Use Total Swale Length Instead of Swale Density for Infiltration Calculations
 Total area served by swales (acres): 0.350
 Total area (acres): 0.350

Select Particle Size Distribution File

Particle Size Distribution File Name

C:\WinSLAMM Files\NURP.CPZ

View Retardance Table

Select Swale Density by Land Use

- ☐ Low density residential - 240 ft/ac
- ☐ Medium density residential - 350 ft/ac
- ☐ High density residential - 375 ft/ac
- ☐ Strip commercial - 410 ft/ac
- ☐ Shopping center - 90 ft/ac
- ☐ Industrial - 260 ft/ac
- ☐ Freeways (shoulder only) - 480 ft/ac
- ☐ Freeways (center and shoulder) - 540 ft/ac

Copy Swale Data

Paste Swale Data

Delete

Cancel

Continue

Control Practice # : 4
 CP Index # : 4

WinSLAMM Land Use Inputs

Commercial 1:

Land Use:					
Commercial 1					
Source Area #	Source Area	Area (acres)	Source Area Parameters	First Control Practice	Second Control Practice
	Roofs	0.000			
	Parking	0.122			
	Driveways/Sidewalks	0.000			
	Streets	0.000			
	Landscaped Areas	0.000			
	Other Areas	0.000			

Commercial 2:

Land Use:					
Commercial 2					
Source Area #	Source Area	Area (acres)	Source Area Parameters	First Control Practice	Second Control Practice
	Roofs	0.000			
	Parking	0.232			
	Driveways/Sidewalks	0.014			
	Streets	0.000			
	Landscaped Areas	0.000			
	Other Areas	0.000			

Commercial 3:

Land Use:					
Commercial 3					
Source Area #	Source Area	Area (acres)	Source Area Parameters	First Control Practice	Second Control Practice
	Roofs	0.000			
	Parking	0.375			
	Driveways/Sidewalks	0.004			
	Streets	0.000			
	Landscaped Areas	0.000			
	Other Areas	0.000			

Commercial 4:

Land Use:					
Commercial 4					
Source Area #	Source Area	Area (acres)	Source Area Parameters	First Control Practice	Second Control Practice
	Roofs	0.000			
	Parking	0.340			
	Driveways/Sidewalks	0.010			
	Streets	0.000			
	Landscaped Areas	0.000			
	Other Areas	0.000			

WinSLAMM Outputs

SLAMM for Windows Version 10.0.3

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Data file name: P:\2014\2014.064 - Urban Construction - Baseball Acd\Studies & Reports\Stormwater\support\WinSLAMM\WI Baseball Academy1.mdb

Data file description: WI Baseball Academy

Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Green Bay WI 1969.RAN

Particulate Solids Concentration file name: C:\WinSLAMM Files\WI_AVG01.pscx

Runoff Coefficient file name: C:\WinSLAMM Files\v10 WI_SL06 Dec06.rsv

Residential Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Freeway Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO02.ppdX

Model Run Start Date: 03/29/69 Model Run End Date: 11/25/69

Date of run: 07-01-2014 Time of run: 15:08:26

Total Area Modeled (acres): 1.097

Years in Model Run: 0.63

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls:	63274	-	128.4	507.0	-
Outfall Total with Controls:	7883	87.54%	106.9	52.61	89.62%
Annualized Total After Outfall Controls:	12511			83.50	

Appendix G: Construction Site Inspection Report

CONSTRUCTION SITE INSPECTION REPORT

Form 3400-187 (rev. 9/04)

Page 1 of 2

Notice: Use of this specific form is voluntary, but the information contained on this form must be collected and kept by the permittee under s. NR 216.48(4), Wis. Adm. Code, for a construction site covered under the General WPDES Construction Site Storm Water Discharge Permit, Permit No. WI-0067831-2. This form is provided for the convenience of the permittee to meet the requirements of s. NR 216.48(4), Wis. Adm. Code. Multiple copies of this form may be made to compile the inspection report.

Inspections of implemented erosion and sediment control best management practices must be performed weekly and within 24 hours after a precipitation event 0.5 inches or greater which results in runoff.

Weekly written reports of all inspections conducted by or for the permittee must be maintained throughout the period of general permit coverage.

The information maintained in accordance with s. NR 216.48 (4) must be submitted to the Department upon request.

Name of Permittee:				
Construction Site Name (Project):			Construction Site ID No.:	
Location:			County:	
Contractor:			Field Office Phone:	
Note: Weekly inspection reports, along with erosion control and stormwater management plans, are required to be maintained on site and made available upon request.				
Date of inspection (mm/dd/yy): _____			Type of inspection: <input type="checkbox"/> Weekly <input type="checkbox"/> Precipitation Event <input type="checkbox"/> Other (specify) _____	
Time of inspection: Start: _____ a.m./p.m. End: _____ a.m./p.m.			Name(s) of individual(s) performing inspection:	
Weather:				
Description of present phase of construction:				
Modifications Required	Yes	No	Not Applicable	Comments/Recommendations about the overall effectiveness of the erosion and sediment control measures. Note: For each item checked "Yes", complete the follow-up information on page 2.
Ditch Checks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Erosion Control Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Erosion Mat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Grading Practices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Inlet Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mulch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Offsite Sediment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Permanent Seeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Schedule / Phasing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Silt Fence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Silt Screen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sod	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Stabilized Outlet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temp. Diversion Channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temp. Settling Basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temporary Seeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tracking Pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Turbidity Barrier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

CONSTRUCTION SITE INSPECTION REPORT

Form 3400-187 (rev. 9/04)

Page 2 of 2

Name of Permittee:

Construction Site Name (Project):

Construction Site ID No.:

Use the space below for detailed follow-up action items.

Exact place of erosion/sediment
control inspected

Type of erosion/sediment control and its
observed condition

Description of any necessary maintenance or repair
to erosion/sediment control, including anticipated
date of completion

Appendix H: Storm Water Management Maintenance Agreement

Storm Water Management Maintenance Agreement
for:
Wisconsin Baseball Academy
8702 Progress Way, Weston, WI
June 2014

1.0. General

The purpose of this maintenance agreement is to provide a framework for the future inspection and maintenance related to the on-site storm water facilities for the Wisconsin Baseball Academy complex. This maintenance agreement complies with the Village of Weston's Municipal Code 86.309. This agreement is to provide for maintenance of storm water practices beyond the duration period of the initial permit (long-term, post-construction). This Agreement shall be recorded with the county register of deeds as a property deed restriction so that it is binding upon all subsequent owners of the land served by the storm water management practices. This maintenance plan is developed for the life of the storm water management practices on this site.

2.0. Identification of Storm Water Facilities [Weston Code 86.309(2)(a)]

1,000 linear feet of grass swales have been included on the site to convey and treat storm water runoff from the parking lot and sidewalk areas as it travels to the retention pond.

All runoff drains to a regional retention pond adjacent to the south side of Progress Way and is located within a drainage easement. The Village of Weston is responsible for the maintenance of this retention pond under a separate Maintenance Agreement.

3.0. Schedule of Regular Maintenance [Weston Code 86.309(2)(b)]

Regular inspection and maintenance of the system are necessary to ensure the systems is properly functioning. All waste and unused facility or construction materials (including garbage, debris, cleaning waste) associated with the property shall be properly disposed of and not allowed to be carried away by runoff. The rate at which the system collects pollutants will depend upon the effectiveness of the grass swales.

The storm water system shall be inspected on a biannual basis (twice yearly), typically in the spring after the snow melt and in the fall after the foliage has fallen from the trees. Visually inspect that the parking lot and grass swales are visually clear from waste, debris, foliage and sediment (from leaf foliage or snow clearing) that has been collected and deposited on-site. Visually inspect the parking lots, curb & gutter, sidewalks and grass areas for accumulation of sediment and trash; clean and maintain as necessary.

When visual inspections indicate there is approximately three (3) inches of sediment within the grass swales, cleaning shall be performed. Sediment can be removed through the use of a vacuum system or other means as necessary to removal the sediment. Dispose of all the collected waste and debris properly. Maintain the inspection and maintenance records as necessary and provide to the regulatory agency or personal as requested.

4.0. Responsible Party [Weston Code 86.309(2)(c)]

The Wisconsin Baseball Academy, LLC shall be considered the Owner and responsible party for this property and shall maintain storm water management practices in accordance with the schedule included in Paragraph 3.0.

Eric Greening, President
Wisconsin Baseball Academy, LLC
8702 Progress Way
Weston, WI 54476
(715) 470-3457
eric@wisconsinbaseballacademy.com

5.0. Maintenance Requirement [Weston Code 86.309(2)(d)]

The Wisconsin Baseball Academy, LLC shall maintain the storm water management practices in accordance with the schedule of regular maintenance as included, but not limited to, those stipulated in Section 3.0 Schedule of Regular Maintenance of this maintenance agreement.

6.0. Property Access [Weston Code 86.309(2)(e)]

The Director of Public Works, or the designee, shall be granted reasonable access to the property during normal business hours to conduct inspections of storm water management practices as necessary and to ascertain that the practices are being maintained and operated in accordance with the Agreement.

7.0. Public Information [Weston Code 86.309(2)(f)]

The Agreement allows the Director of Public Works, or the designee, to maintain public records of the results of the site inspections, to inform the responsible party for maintenance of the inspection results, and to specifically indicate any corrective actions required to bring the storm water management practice into proper working conditions and into compliance with this Agreement.

8.0. Notification [Weston Code 86.309(2)(g)]

Agreement that the party designated as responsible for the long-term maintenance of the storm water management practices in Paragraph 4.0, shall be notified by the Director of Public Works, or the designee, of maintenance problems which require correction. The specified corrective actions shall be undertaken within a reasonable time frame as set by the Director of Public Works, or the designee.

9.0. Corrective Actions [Weston Code 86.309(2)(h)]

Authorization of the Director of Public Works, or the designee, to perform the corrective actions identified in the inspection report if the responsible party designated in Paragraph 4.0 does not make the required corrections in the specified time period. The Director of Public Works, or the designee, shall enter the amount due on the tax rolls and collect the money as a special charge against the property pursuant to Wis. Stats. Ch. 66, subch. VII.